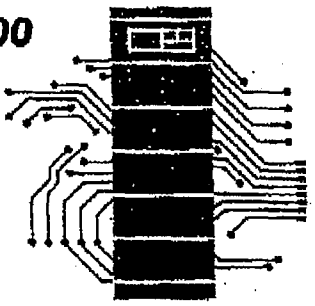
Dictaphone
A Pitney Bowes Company

Veritrac® Series 9000



CERTIFICATE OF TRAINING DICTAPHONE CORPORATION

Dictaphone Corporation and its authorized employees, agents, and/or dealers will be totally responsible for both installation and the maintenance of the recording equipment as well as inmate monitoring equipment for the duration of this RFP Contract. Only authorized representatives of Dictaphone will respond to the ongoing service, training and installations for the State of Washington RFP. This maintenance support will continue for the 5 year duration of this contract. This will serve as our Certificate of Training in response to the Washington RFP.

Gordon F. Moore
Vice President
Communications Recording Systems Division

Notary: Lauren Sutter **Date:** 10/3/91

Corporate Seal

000464

Specifications Recording System #1.12

U S WEST Customer References

Columbia River Corrections
911 Sunderland
Portland, Oregon 97211
Mr. Mike McGee
(503) 280-6646

Eastern Oregon Correctional Institute
2500 Westgate
Pendleton, Oregon 97801
Mr. Baldwin
(503) 276-0700

Oregon Department of Corrections
2500 Westgate
Pendleton, Oregon 97801
Mr. Greg Kanne
(503) 378-2064

Oregon State Correction Institute
3405 Deer Park Drive S E
Salem, Oregon 97310
Jim Bartlett
(503) 373-0118

Oregon State Penitentiary
2605 State
Salem, Oregon 97310
Lt. Joe Klika
(503) 378-2453

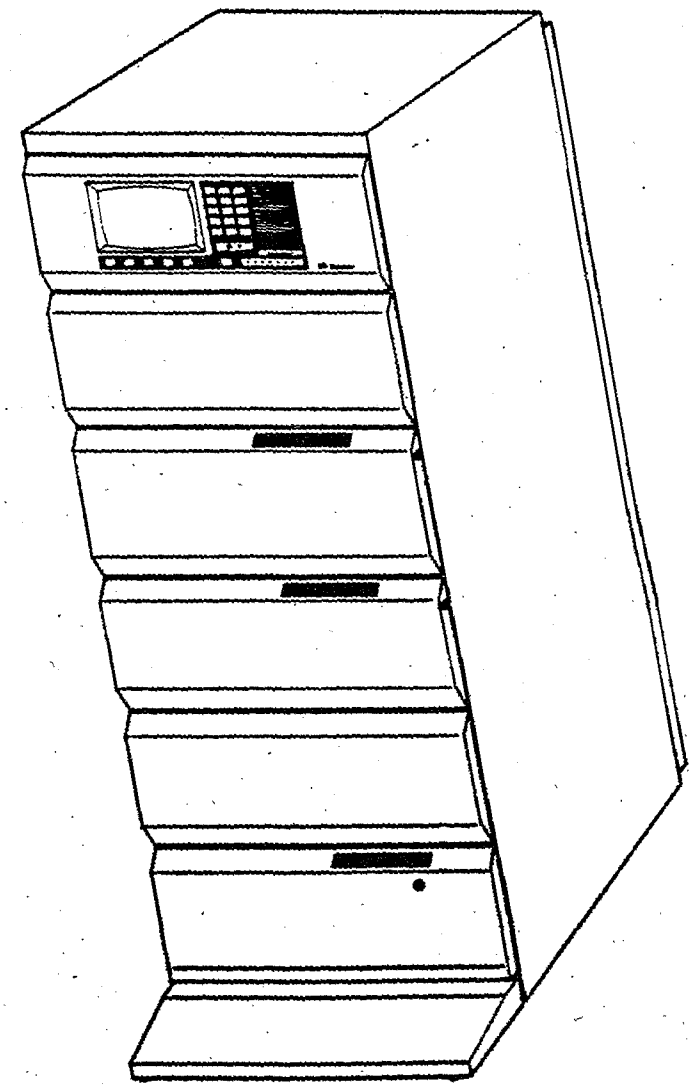
Snake River Corrections
777 Stanton
Ontario, Oregon 97914
Ed Gates
(503) 881-5000

State of Utah Department of Corrections
Dept. of Administrative Services
Division of Information Technology
5000 State Office Building
Salt Lake City, Utah 84114
Bill Theel
(801) 538-3333

Dictaphone
A Pitney Bowes Company

Veritrac Series 9000

Voice Communications Recording System



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L-1150

SPECIFICATIONS

MULTI-CHANNEL COMMUNICATIONS RECORDING SYSTEM

Comply	Exception

1.00 GENERAL

This specification covers logging tape recorder/reproducer systems designed to provide recording of 4 to 240 channels plus the time/date signal multiplexed on one channel with audio. The equipment furnished under this specification shall be designed for continuous duty operation, i.e. 24 hours per day, 365 days per year.

1.01 All equipment supplied under this specification shall be completely operational when installed. After the equipment has been accepted and placed in service, the vendor shall guarantee it for a period of one year and will replace, free of charge, any parts thereof, which become broken or defective, except by reason of accident, misuse, or any casualty, during such period.

1.02 The vendor will make all necessary adjustments to this system, not required by reason of accident, misuse, or any casualty, at the vendor's expense for a period of 90 days from date of installation.

1.03 A first years maintenance agreement shall be provided. The vendor guarantees to accept annual maintenance agreements for at least a 5 year period without additional charges for overhauls.

1.04 Service technicians directly employed by the equipment manufacturer must be available to respond within one working day in the event service is required. Describe local service organization along with telephone number and address on a separate sheet. Certificates of training courses completed on the equipment proposed by the responsible technician shall be included with the bid response.

1.05 The vendor shall guarantee parts support for all items under this specification for a period of not less than five (5) years.

1.06 This successful bidder shall supply a comprehensive technical manual, complete with all schematic and wiring diagrams, printed circuit board drawings, and parts listing. The successful bidder shall also provide an easy to read comprehensive operation instruction book as well.

1.07 The vendor shall be responsible for the installation of all equipment covered by these specifications.

1.08 All equipment in this specification shall be delivered no later than sixty (60) days after receipt of order. F.O.B. point shall be destination.

Comply	Exception

1.09 The vendor shall provide on–site training and instruction for all operators, covering all equipment supplied under this specification. This training is to be performed by direct employees of the equipment manufacturer.

1.10 The recorder/reproducer shall be agency approved by the following agencies: UL, CSA, DOC, and FCC part 15 and 68. The machine will have the appropriate markings on the label.

1.11 All vendors responding to this specification must check in the appropriate box provided if they fully comply or not. If the do not comply box is marked a full explanation of the non–compliance must be included on a separate page. Failure to complete this requirement is cause for bid rejection.

1.12 All vendors responding to this specification must supply a list of at least three local references using the system being quoted.

1.13 All vendors responding to this specification shall include an audited financial statement. If a vendor is proposing a system that is not manufactured by them, then an audited financial statement of the manufacturer must be included as well. Failure to complete this requirement is cause for bid rejection.

1.14 All equipment in this specification shall have incorporated the necessary modifications to allow installation to meet seismic bracing codes if required.

2.00 CENTRAL CONTROL CRT MODULE

2.01 A master control module shall be provided that can fully control up to four transport modules. This master controller shall contain a 9" monochrome CRT and incorporate a series of easy to read screens. The controller shall have a membrane switch containing five soft keys, a dedicated "previous screen" key, numeric key pad and a manual variable speed search strip associated with it.

2.02 This central control CRT shall also contain a volume control, speaker, headset and cassette jack and be an integral part of the system design. Any OEM'ed PC equipment is unacceptable.

2.03 The playback amplifier in the control module shall provide 5 watts of audio at the speaker and headset jack with a fixed –6 dBm at the cassette record jack.

2.04 The central control CRT shall contain a microprocessor that will act as a system controller and will provide all control and monitoring for up to four transports.

2.05 The central control CRT shall contain a master clock that synchronizes all of the individual transport clocks and will display the time/date information from any transport on the CRT screen through a prompted series of key strokes.

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	Comply	Exception
2.06 The central control CRT shall display a playback screen with the total number of channels indicated individually. Any one, or all up to four transports may be played back through the controller. Any one, any combination or all channels may be selected through the numeric key pad for simultaneous playback through the speaker, headphone jack or cassette record jack. Channel selections will clearly show on the CRT screen in reverse video.		
In addition, an automatic noise eliminator circuit can be enabled during playback to filter out background noise and enhance the playback clarity.		
2.07 The central control CRT shall provide a channel audio activity monitor. This monitor will provide visual indication of active audio recording or active playback audio by channel. This will be shown in highlighted video on the screen for each individual channel.		
2.08 The central control CRT shall provide the ability to automatically search any previously recorded tapes on any of up to four transports. The auto search feature is initiated through a series of CRT prompted inputs. The date/time desired is displayed on the CRT screen and auto search initiated. The transport, under the command of the central controller will search at a high speed to locate the desired time/date and stop with no overshoot and begin playing.		
2.09 The time/date information displayed on the CRT during the auto search function shall be the real time off tape. Any computer generated simulated times shall not be acceptable.		
2.10 The central control CRT initiated auto search function shall be carried out at fast speeds of up to 700 to 1 allowing the acquisition of any time/date address in less than 140 seconds.		
2.11 The central control CRT shall provide the capability to manually search any of up to four transports. This manual search will allow full variable (from 0 to 400 times normal record speed) speed control either forward or reverse from a soft membrane strip. This strip will activate when touched with a fingertip and cause the transport to move in concert with the finger movements. When the control is released, the transport will stop and resume playback automatically.		
2.12 The central control CRT shall provide an audio search mode that allows search for audio on any selected channel on any of up to four transports. In this mode the tape will move automatically at 100 times recorded speed over blank tape until audio is detected. The transport will then go into play and remain in play until asked to search again by touching the soft key or approximately 10 seconds of silence are encountered. **ANY SEARCH SPEED BELOW 40 TIMES NORMAL PLAY SPEED IS NOT CONSIDERED MEANINGFUL. PLEASE CERTIFY YOUR SEARCH SPEED ON AN ATTACHED PAGE.**		

	Comply	Exception
2.13 The central control CRT master time clock shall keep correct time from the internal UPS battery during an external power failure for a minimum of 24 hours. Upon restoration of external power master time shall be generated and the individual clocks in each transport will be set with the master clock time/date.		
2.14 The central control CRT shall contain the capability to have a 3 digit machine ID number programmed into the system. This 3 digit number will be recorded on each tape along with the time/date information and display on the CRT screen when a tape is played.		
2.15 The central control CRT must allow the time of day when recording is to be transferred to the next deck to be programmed into the system. This transfer must occur automatically, everyday, controlled by the central controller and not rely on any mechanical sensors or clocks. The controller shall also provide an automatic transfer when approximately 2 hours of tape is remaining as well.		
2.16 Working in conjunction with the search for audio function, the central control CRT shall provide the ability to auto rerecord. This feature will facilitate the automatic rerecording of one or more channels on a single channel of an external tape recorder. It must provide the rerecord tape recorder with a start/stop signal as well. This function shall eliminate gaps automatically without operation attendance or manual operation.		
2.17 The central control CRT shall have the ability to auto–restore on any of up to four transports to a clean tape position just beyond the last recorded message on the tape and automatically go into the ready to record mode.		
2.18 The central control CRT shall be capable of being programmed to provide automatic start up and automatic shut down of the entire system at preset times on preset days.		
2.19 The central control CRT shall offer complete system security and allow only operations with the right level clearance to access specific functions. This will be accomplished by multiple levels of access by programmed passwords.		
2.20 The central control CRT shall display visual alarms and sound audible alarms when any system malfunction is detected. These visual alarms will appear on the CRT and indicate where the failure occurred. These prompts are "AMP FAILURE", "SAFE SCAN FAILURE", "POWER SUPPLY FAILURE", "LOW FREQUENCY FAILURE", "HIGH FREQUENCY FAILURE", etc. The audible alarm will sound in two distinct ways; one indicating minor failure and one indicating major failure.		
2.21 The master time clock in the central control shall accept time synchronization signals from a variety of external sources including IRIGE. The master clock shall also provide a time sync signal to an external time allowing it to become the master for an entire system.		

000471

	Comply	Exception
2.22 The central control CRT shall contain complete service diagnostic routine to allow a service technician to automatically trouble shoot a system and locate faults to the board level.		
2.23 The diagnostics routine shall contain a user mode that allows auto tape–load diagnostics to the programmed. This will occur automatically each time a new reel is loaded on a transport. This will verify recording, time code, high & low frequency response and safe scan operation; then switch the transport into "ready" to record mode and display "PASSED" or "FAILED" on the CRT screen.		
2.24 The amount of tape remaining shall be displayed for each transport module on the CRT screen in hours and minutes.		
2.25 The central control CRT shall allow the selection of an "over record" protection mode. The system while in this mode shall not allow an operator to place a deck into record when previous recording is present on the tape loaded for use.		
2.26 The central CRT Controller shall allow the language selection of either English, German, Spanish, or French to be displayed.		
2.27 The central CRT controller shall allow alerts to be cleared without removing the deck from the record mode.		
2.28 The central CRT controller shall allow for the pre–programming of the transfer to and from daylight savings time automatically.		
2.29 The central CRT controller shall provide in addition to 3 levels of password security, the ability to restrict access to certain decks within a system as well.		
2.30 The central CRT controller shall display which deck has been selected as the archive or primary deck.		
3.00 ELECTRONICS/AUDIO		
3.01 All electronic circuits shall be of modular construction and arranged for quick replacement by using plug in cards. All plug in cards shall be accessible from the front of the cabinet.		
3.02 All recorder inputs should be 60k OHMS, balanced bridging and transformer isolated. To facilitate the balancing of all input levels, a variable level control shall be associated with each channel to permit operation with audio line levels between –30 dBm and +10 dBm. Such controls shall be easily accessible.		
3.03 The input level shall be jumper selectable at a preselected range of –10,0, +10 or +20 dBm.		

000472

Comply	Exception

3.04 The universal audio inputs provided shall be jumper selectable for either current sensing telephone coupler operation, voltage sensing telephone coupler operation, VOX operation, external start and be FCC approved for direct connection to the telephone system.

3.05 Record amplifiers shall be furnished providing AGC operation with a range of 40 dB minimum and attack time of less than 17 ms. Recovery time shall be 200 ms typical for a –20 dB step change. The compression shall be 3 dB maximum variation in record level for a 40 dB change in input level. These plug in cards shall be mounted in an area with adequate space for the requirements of up to 120 channels per module with a maximum of 2 modules providing space for 240 channels.

3.06 Playback preamplifiers shall be mounted on plug in circuit cards with adequate space for the requirements of up to 60 channels per transport module. Playback preamplifiers shall be physically located close to the playback heads to allow for the best possible signal–to–noise performance.

*3.07 Signal–to–noise ratio shall be a minimum of –36 dB at standard record level or –42 dB at peak record level. The signal–to–noise ratio shall improve to –46 dB when the ANE circuit is enabled.

*3.08 Cross talk between channels shall be a minimum of –34 dB below recorded signal at standard record level or –42 dB when measured to peak record level.

*3.09 Wow and flutter shall be a maximum of 0.5% weighted peak, at tape speed of 15/32 inches per second. Within the head bridge area, free tape span measurements shall not exceed two inches.

*3.10 Limited only by tape characteristics, distortion shall be 3.0% Third Harmonic Distortion or less at standard record level at 500 Hz. Measurement to total harmonic distortion is unacceptable.

*3.11 At a tape speed of 15/32 in. per second, overall frequency response in both record and play mode shall cover a range of 300 –3000 Hz plus or minus 3 dB.

3.12 The depth of erasure shall be equal to the signal–to–noise ratio.

3.13 The bias frequency shall be 42kHz nominal.

4.00 TAPE TRANSPORT MODULES

4.01 Each tape transport mechanism shall be designed to slide out of the cabinet in its own drawer for ease of access to all components.

4.02 Each transport shall be capable of recording from 4 to 60 channels.

* **"Dictatape" or approved equal must be used.**

000473

	Comply	Exception
4.03 When two or more transports are provided, they shall be identical and inter–changeable. Each transport shall function as a standby for the other in the event of tape run–out, tape breakage or any other failure leading to the interruption of the recording function. The transfer from one transport to another shall be automatic, with manual override. A visual and audible alarm shall be provided to indicate such failure and/or transfer.		
4.04 Each transport shall be designed for "straight line" tape threading.		
4.05 For economical tape usage, each transport shall utilize such head design as to allow the recording and playback within the requirements of the "Electronics" portion of this specification, up to 8 channels on 1/4 – inch tape, up to 20 channels on 1/2 –inch or 1 – inch tape and up to 60 channels on 1 – inch tape.		
4.06 Head assemblies shall be replaceable, without making azimuth or zenith adjustments. Head plug–in connectors shall be arranged such that heads cannot be disconnected. The heads, stationary tape guides and corning guides shall all be mounted on one precision milled bridge plate that absolutely precludes any tape mishandling due to transport warping.		
4.07 In two or more transport arrangements, it shall be possible for the tape on any transport to be rewound or played back (when standby operation is not required) without danger of erasing or affecting the operation of another transport in any way.		
4.08 It shall be possible for two or more transports in a given system to be capable of simultaneous recording, without the need for modifications, additional amplifiers, power supplies, etc.		
4.09 Each transport shall provide at least 25 hours of continuous recording, using 3600 feet of 1.0 mil base tape, operating at a speed of 15/32 inches per second.		
4.10 Each transport shall be of a 3–motor design with the tape drive system incorporating a brushless DC–Servo speed controlled capstan motor. The drive system shall be of **dual differential capstan** or closed loop design. Capstan pressure rollers shall turn on precision ball bearings and shall be constructed of polyurethane to insure constant tape drive without degradation due to hardening, wear, or changes due to contact with any type of head cleaning solvent. The take up motors shall be brushless DC, torque or speed controlled.		
4.11 In fast forward and rewind modes, the oxide side of the tape shall come in contact with the tape guides and the tape lifters only. These tape guides shall be of such design as to eliminate lateral tape strain or side pressure in the head area due to variations in the reel packing geometry.		

* **"Dictatape" or approved equal must be used.**

000474

	Comply	Exception
4.12 Each transport should incorporate a double solenoid type of braking system to ensure smooth and coordinated braking of both reels. Braking time shall be adjustable. Average braking time shall be approximately 4 seconds, with a maximum of 6 seconds from maximum fast forward or rewind speed. The braking shall automatically engage upon external power failure.		
4.13 The braking system shall incorporate a "tape in motion" optical sensing device which shall prohibit engagement of the transport into playback mode until braking is absolutely complete, even though a playback command has been entered by the operator. This device shall completely eliminate the possibility of tape spillage or breakage under such operational conditions. This system should also monitor spindle rotation on both the tape up and supply reels to detect any tape break, spill or stall.		
4.14 The following manual control buttons in addition to the central Control CRT switches shall be provided for each transport: **READY, RECORD, STOP, PLAY, FAST FORWARD, REWIND.** Each shall be of non–locking design. Control circuitry shall be provided with memory logic to allow the operator to rapidly enter two control commands without waiting for the transport to "catch up" with the first command. (Example: while in **REWIND** mode, sequentially operate **STOP** and **PLAY** commands.)		
4.15 It shall be unnecessary to use the **STOP** button as an intermediate control command.		
4.16 To enter **RECORD** mode, the transport must first be in the **READY** mode.		
4.17 The system shall provide ease of "jogging" operation by first depressing the **PLAY** button. The **FAST FORWARD** and **REWIND** buttons shall become momentary controls after play has been entered.		
4.18 In order to **ELIMINATE EXCESSIVE HEAD AND TAPE WEAR,** under all **FAST FORWARD** and **REWIND** conditions, the tape shall be totally free of any mechanical contact with the heads unless the automatic or manual search function has been entered at the central control CRT.		
4.19 A full track erase head shall be provided with each transport, assuring "clean" tapes prior to recording.		
4.20 Each tape transport shall be capable of accepting 10 1/2, N.A.B. reels without auxiliary hub adapters being required.		
4.21 One reel of recording tape and one tape–up reel shall be provided with each transport.		

	Comply	Exception
4.22 The following LED indicators shall be provided on each transport in addition to the indicators on the central CRT control; **READY** activated by depressing **READY** button (allows transport to receive transfer from another transport upon failure) and **RECORD** provides visual indication of **RECORD** Mode. Three other LED's, a moving–bar LED and two arrow LED's shall be located on the front of the transport drawer to indicate tape motion and direction.		
4.23 Each tape transport should incorporate a memory feature which shall return the transport to the previously selected mode following a total loss of power. (i.e. return to **RECORD** mode if in **RECORD** mode prior to the expiration of the UPS battery.)		
4.24 Multiple transport systems shall perform an automatic transfer of the transports in **RECORD** mode on a daily basis at any selectable time. Manual override of this feature shall be possible.		
4.25 Each tape transport drawer module shall not require more than eleven inches of vertical cabinet mounting space.		
4.26 Each transport module shall contain all electronics necessary for audio recording, time code recording, playback and safe scan monitoring functions for up to 60 channels provided by its own dedicated microprocessor.		
4.27 Each transport module drawer shall be equipped with an electronic lock that prevents access without entering a password in the central control CRT. The transports shall have the capability of being opened with a key in the event an extended power failure prevents operation of the electronic lock.		
4.28 The time code generator within the transport modules dedicated microprocessor shall write a code on the tape that contains a 3 digit programmable machine identification number, system deck number, year, month, day, hour, minute and second. This time code will be synchronized to the master clock in the central CRT control. This time code will be multiplexed and allow full use of this channel for audio recording. All channels must meet the published overall specifications.		
4.29 Should master synchronization be lost, the time will be kept from an internal crystal oscillator within each transport and automatically resync to master time when it resumes.		
4.30 The automatic safe scan within each transport module shall monitor the 80Hz guard tone and the time code channel. The safe scan shall take no more than 1.875 seconds to check 60 channels. The safe scan will alert the central control CRT if any failure is detected.		
4.31 From the central control CRT the safe scan fail time shall be programmable from 8 to 60 seconds.		

Comply	Exception

4.32 From the central control CRT, it shall be possible to program the automatic safe scan to skip unused channels.

4.33 In addition to safe scan the transport module microprocessor shall monitor its own bias level, tape speed, spindle rotation and alert the central control CRT if any malfunction is detected.

4.34 It shall be possible to field expand any transport to a larger channel configuration within the transport tape sizes.

4.35 The transport shall be designed for horizontal mount in a sliding drawer or vertical mount in a 19" rack.

4.36 The quoted system new transport design shall not obsolete the usage of tapes recorded on the previous model and shall play those tapes back and provide time/date search capability.

4.37 The individual transports shall contain a program that automatically slows the reels at the beginning of tape or end of tape in the fast forward and fast rewind operations providing gentle tape handling.

4.38 It shall be possible to select VOX operation by transport, allowing one or more transports to run continuously or one or more transports to run VOX.

4.39 It shall be possible to provide two tape transports recording active communications backed up by one tape transport providing 50% redundancy. This two over one configuration shall be completely standard and require no mechanical or software modifications.

4.40 It shall be possible to provide three tape transports recording active communications backed up by one tape transport providing 33% redundancy. This three over one configuration shall be completely standard and require no mechanical or software modifications.

4.41 It shall be possible in either the two over one or three over one configuration to run the stand by deck in parallel with any of the on line transports, providing a "scratch pad" operation. When this function is selected, any failure on a primary record transport will cause the scratch pad operation to cease and transfer failed transport recording to the stand by deck automatically.

5.00 ELECTRICAL

5.01 Commercial power requirements shall be 95–125 volts A/C 60Hz or a dedicated DC power source.

5.02 The entire system shall be designed to minimize heat dissipation. Maximum power consumption shall be less than 625 watts/7.5 amps (850 watts peak).

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Comply	Exception

5.03 The self contained power supply shall convert the main A/C voltage to 18 volt D/C voltage and provide this to all components of the system.

5.04 The power supply module shall include an internal 18 volt sealed lead acid battery that will provide all operating voltages to provide full operation of an entire system for at least 10 minutes upon failure of the commercial power source. This UPS system shall be an integral design feature of the system and any commercially purchased and added external computer type UPS systems are not acceptable. Please state if UPS quoted is part of the internal design architecture or a separate purchased accessory providing a battery converting to A/C to run the system when main A/C failure occurs.

5.05 There shall be space within the power supply module to provide an optional fully duplicated D/C power supply. This optional second power supply will remain in the standby mode and come on line if any failure is detected in the primary power supply.

5.06 The following indicators will be located on the front panel of the power supply module.

1. Primary power module 1 & 2 – O.K.
2. Backup module 1 & 2 – O.K.
3. Battery in use
4. Battery charging

Also located on this front panel is a key operated on/off switch.

When the key is turned to the off position, the internal battery is disconnected and the entire system is turned off.

5.07 The primary power supply shall provide DC for all operating transports. Upon failure the secondary power supply shall also provide DC power for all transports. Any system quoted providing back up power dedicated to only one transport is unacceptable. Please describe back up power engineering method and attach to response.

6.00 PHYSICAL

6.01 All system elements shall be arranged for 19" rack mounting and transports shall be mounted horizontally in locking sliding drawers housed in a cabinet of the following dimensions.

Standard Cabinet	67" H	Expanded Cabinet	88" H
	24" W		24" W
	32" D		32" D

000478

Comply	Exception

6.02 The 67" standard cabinet shall be capable of housing 2 transport modules, 1 amplifier module, 1 CRT central controller module, 1 accessory module, 1 power supply module, up to 120 amplifiers and up to 120 telephone/radio interface cards.

6.03 The 88" cabinet shall be capable of housing 4 transport modules, 2 amplifier modules, 1 CRT central controller module, 1 accessory module, 1 power supply module, 240 record amplifiers and 240 telephone/radio interface cards.

6.04 The weight of the full 67" cabinet shall not exceed 400 lbs. and the weight of the full 88" cabinet shall not exceed 600 lbs.

6.05 Must provide a stable, rolling caster, UL approved base assembly for easy movement but not tip over.

7.00 ENVIRONMENTAL SPECIFICATIONS

7.01 The storage temperature shall be –10 to 70 degrees centigrade.

7.02 The operating temperature shall be 5 degrees centigrade to 32 degrees centigrade.

7.03 The operating relative humidity shall not exceed 90% RH non–condensing.

7.04 The average BTU's generated by a fully operating recorder reproducer shall not exceed 1000 BTU's per hour.

8.00 OPTIONAL ITEMS

8.01 A FULL FUNCTION CRT REMOTE CONTROL WORK STATION shall be provided. This microprocessor driven unit will permit full control of the master recorder from a remote location. The CRT screen must show status of this system as a whole and each transport up to four independently. All record search and playback operations shall be directed with state of the art multifunction controls, volume control speaker, headset jack and manual control strip identical to the master recorder must be on this panel. Space shall be available to house a full function cassette record panel to work in conjunction with the remote. Up to four of these work stations may be installed with one system. Automatic privacy shall be provided when multiple work stations are used.

8.02 A CASSETTE REREcord PANEL shall be provided. This standard cassette, one channel recorder shall be built onto a panel not to exceed 1.75" high and 19" wide. This unit must install into the cabinet of either the master recorder, portable reproducer or remote control console. The cassette panel must contain these controls, VOX record, continuous record and eject tape. The panel shall contain LED indicators for "Audio Recording", "VOX Record" and continuous record. This module shall also contain a second track where the digital time being reproduced is converted to a voice time and recorded on that track.

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Comply	Exception

8.03 A complete **BACK UP DC POWER SUPPLY** shall be provided that will automatically switch on upon any failure of the primary unit. This power supply will provide all of the DC voltages needed to operate an entire system of up to four transports. The following LED indicators shall be on the front of the power supply module. Primary module 1 and 2 "OK", back up module 1 and 2 "OK", battery "in use" and battery charging.

8.04 An optional **TELEPHONE–BEEPING UNIVERSAL INPUT** coupler shall be available for each designated telephone line or work position to be recorded. The universal input shall replace the standard non–beeping universal inputs that are provided as standard with the system. The beeper universal inputs shall be FCC approved and provide a beep every 15 seconds.

8.05 **A REMOTE ALARM AND STATUS PANEL** shall be provided which will give audible and visual indications of any failure condition at a remote location for up to four transports. This panel shall be 19" rack mountable with an optional desk top enclosure.

8.06 **AUDIO SIGNAL ACTIVE COMBINERS** which electronically combine two audio sources (i.e. duplex radio system) into one audio input to the recorder shall be provided. These combiners must include individual input control adjustments and be part of the universal inputs.

8.07 **SLAVE CLOCKS** will bright LED displays and slaved to the Series 9000 system master time clock shall be provided. These clocks shall be rack mountable in 1.75" high slots in a 19" rack or desk top mounted or a **MATRIX WALL CLOCK** version shall also be provided displaying hours, minutes and seconds with a scrolling date/display every minute.

8.08 A **REDUNDANT SET OF RECORD AMPLIFIERS** shall be provided that will automatically switch on should any malfunction be detected in the primary record amplifiers. When these back up amplifiers are installed, along with a backup power supply in a two transport system, 100% system redundancy shall be possible with out effecting individual transport operation or total system operation. Systems that fail an entire transport on amplifier or power supply failure are unacceptable.

9.00 PORTABLE REPRODUCER/TRANSCRIBER

9.01 A **SINGLE TRANSPORT PORTABLE REPRODUCER** completely compatible with the associated voice communication recorder/reproducer shall be provided.

9.02 This system shall be designed to reproduce the tapes recorded on the master recorder and provide a playback display of the recorded time/date along with machine ID# information.

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	Comply	Exception
9.03 This reproducer shall include a **CRT MONITOR** that displays a series of easy to read screens. This monitor shall have a membrane switch containing five soft keys, a dedicated "previous screen" key, numeric key pad and a soft membrane search strip associated with it identical to the master recorder.		
9.04 The tape transport shall be of **IDENTICAL** design as the **MASTER RECORDER** but have no record or erase capability.		
9.05 The following control buttons shall be provided on the tape transport in addition to the CRT control switches **REWIND, FAST FORWARD, PLAY, STOP, SPEED CONTROL AND AUTOMATIC BACKSPACE SELECTION.**		
9.06 The reproducer shall meet all electronic/audio and electrical specifications of the master recorder.		
9.07 The features **AUTO–SEARCH, AUDIO–SEARCH, VARIABLE SPEED SEARCH, ACTIVITY MONITOR, MULTIPLE CHANNEL PLAYBACK AND AUTO RERECORD** must be available on the playback system.		
9.08 A **VARIABLE SPEED CONTROL** and **ADJUSTABLE BACKSPACE CONTROL** shall also be provided to facilitate transcription of prerecorded tapes.		
9.10 All equipment and features listed above shall be housed in a portable carrying case, with dimensions not exceeding 40" in height, 24" in width and 24" in depth. A plexiglas door shall be included that covers the entire front of the case. Total weight should not exceed 90 lbs.		
9.11 The system should be able to accept a built–in rerecord panel with no modification to the cabinet.		
9.12 The optional portable reproducer shall be fully compatible with the tape of the same size and channel configuration recorded on the vendors previous models. Auto search and time/date display functions shall be fully operational.		
9.13 The portable reproducer shall include an empty tape reel, a set of head phones and a foot control to facilitate ease of transcription.		
10.00 SUPPLIES AND ACCESSORIES		
10.01 _____Sets of headphones shall be provided.		
10.02 _____Head demagnitizer and cleaning kits shall be provided.		
10.03 _____Bulk tape erasers shall be provided.		
10.04 _____Extra take up reels shall be provided.		
10.05 _____Tape splicers shall be provided.		

000481

	Comply	Exception
10.06 _____ Reels of 3600 ft, 1 mil thick, low noise recording tape shall be provided. Any tape with thickness less than one mil or not specifically designed for slow speed voice recordings is unacceptable.		
10.07 _____ Boxes of head cleaning pads made of material that does not shed or contain any solution not recommended by the manufacturer shall be provided.		

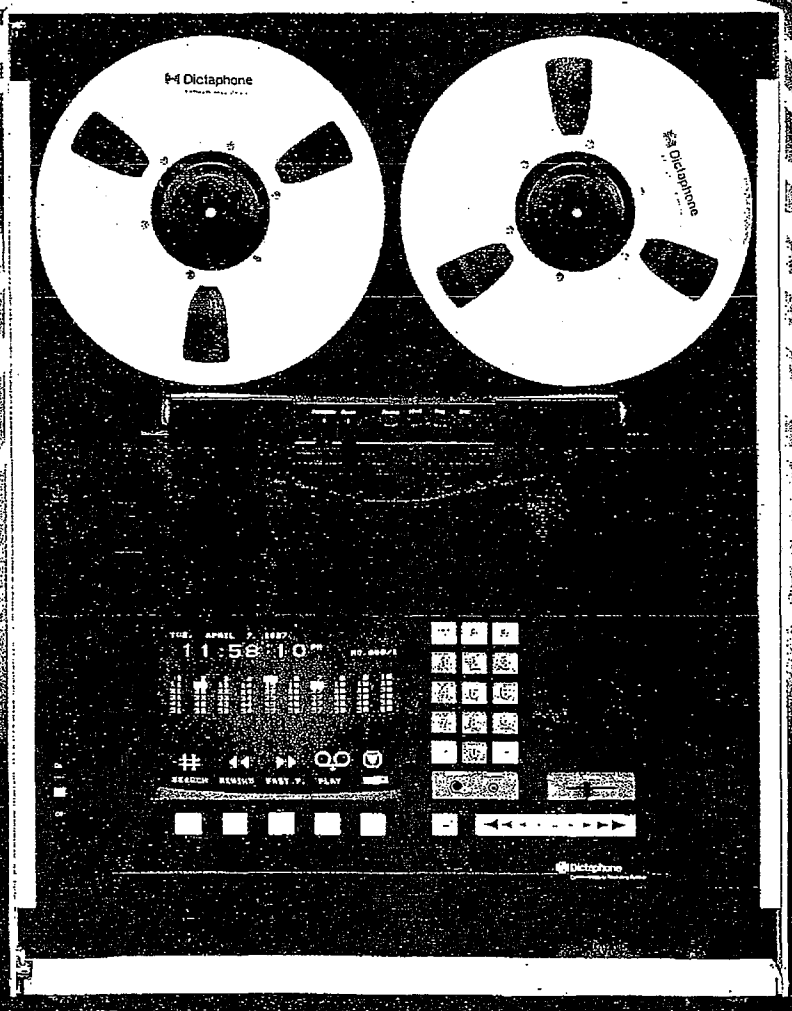
000482

Dictaphone
A Pitney Bowes Company

Veritrac® Series 9000

Voice Communications Recording System

A broad selection of accessories to meet the unique needs of your application.



000483

Dictaphone
A Pitney Bowes Company

SPECIAL FEATURES OF THE VERITRAC 9000

1. POWER

120V A/C, 220v A/C, 240 A/C, 50Hz or 60 Hz, main power is converted to 15 - 18 volts DC for Veritrac 9000 system operation. This allows the entire system to be DC powered and makes it easy to include as STANDARD, an uninterruptible power system. The Veritrac 9000 will operate totally on its own internal battery for a minimum of 10 minutes! This DC operation will also allow the 9000 to be powered directly from external sources of DC power.

2. AGENCY APPROVAL

It is increasingly important that telecommunication users have assurances that systems they are procuring meet some basic standards. Outside agency approvals do attest to this requirement and the Veritrac 9000 has the following agency approvals and they do appear on the system labels: UL; CSA; DOC; FCC Part #15; FCC Part #68 and FCC Direct Connect #.

3. UNIVERSAL AUDIO INPUT

The Veritrac 9000 contains a universal input port for each audio channel. This universal input allows user selection through jumpers of any of the following options:

1. Peak input audio level of -10db, 0db, +db and +20bd.
2. Current sensing telephone on hook, off hook.
3. Voltage sensing telephone on hook, off hook.
4. VOX operation.
5. External closure start.
6. Input impedance of a maximum of 60k ohms, reducible anywhere down to 600 ohms.
7. Continuous run.

4. SECURITY

The Veritrac 9000 has multiple levels of security. Passwords must be programmed into the central controller that permit only operators with the right clearance to access specific functions. Each recording deck can have different passwords.

5. CENTRAL CRT CONTROLLER

The Veritrac 9000 has all system controls and monitoring located in a central control panel that utilizes a 9" monochrome CRT to display all functions and alerts. This screen has a membrane switch panel containing 5 soft keys, a dedicated previous screen key, a numeric key pad and manual search strip associated with it. In addition the volume control, speaker, and headset cassette jacks are on this panel. Located within the central controller is a powerful microprocessor that can completely control up to 4 individual transports and up to 240 channels of recording and playback. This computerized command center displays

a series of easy to read screens. They will indicate everything you will need to know about the overall system, as well as each transport independantly (e.g. which decks are in use, the mode of operation of each, how much recording time is left on each deck, if everything is functioning smoothly, etc.). At the same time, you direct all record, playback and search operations with the state-of-the-art multifunction controls.

6. ACTIVITY MONITOR

The screen on the computerized command center displays the number of channels available in the system (e.g. 4-60). In the record mode any channel that has active audio shows clearly in reverse video. When the playback function is selected, channels that have audio present also show in reverse video.

7. SIMULTANEOUS MULTI-CHANNEL PLAYBACK

The Veritrac 9000 allows anyone, any combination, or all channels to be selected for playback. The playback screen clearly shows channel selected in reverse video and the playback activity is now indicated on those channels by a bold display.

8. MULTIPLE TRANSPORT OPERATION

The Veritrac 9000 includes up to four transports in one system with up to 240 channels of recording. This allows for an unprecedented configuration flexibility! For instance, a 4 transport system can provide 60 channels of unattended recording for 4 days (96 hours)! A 4 deck transport system could provide 180 channels of on-line recording with the 4th transport providing 25% redundancy!

9. TAPE TRANSPORT MODULES

The Veritrac 9000 can be configured with as many as four advanced transport modules containing 4-60 channels each. The tape transport modules are contained in a slide mounted drawer that allows for easy access. The modules contain all necessary equipment to perform the tape transport functions, safe scan, time code writing, audio recording and playback and each contains its own microprocessor for control. An electro mechanical lock is provided on each module that is under the control of the central command controller. The drawers cannot be accessed unless the proper password has been entered into the system. It is possible to open these drawers with a key should there be a long power outage that precludes entering the proper password. These modules will continue to operate independantly if the central controller fails or is removed from the system. Each module contains backup control switches that provide ready record, stop, play, fast forward, and fast rewind functions for each module.

10. DUAL DIFFERENTIAL CAPSTAN DRIVE

The Veritrac 9000 tape transport provides tape motion with a dual capstan drive. This 3 motor, all DC power transport utilizes a brushless DC-Servo speed controlled capstan motor and two brushless DC, unique or speed control reel motors. Independent audio engineers and consultants advise that this type of drive is the best.

11. FIELD EXPANSION

The Veritrac 9000's unique transport design allows for tape transport expansion within tape size. That means if you have a system utilizing 20 channel 1" tape transports, they can be expanded to 30, 40, or even 60 channels at your location.

12. TAPE MOTION MONITORING

The Veritrac 9000's unique transport module monitors its own tape speed and spindle rotation to detect any variance in record speed or tape breaks, spills, or stalls. Any malfunction causes an immediate alert to be sent to the central controller to be displayed on the screen and an audible alarm sounds.

13. ALL CHANNEL SAFE SCAN

The Veritrac 9000 transport module's microprocessor monitors the performance of all channels continously. A 80 #2 guard tone is recorded on all channels except channel 3 which contains time code continuously. The safe scan monitors every channel taking only 1.875 seconds to scan all 60 channels and alerts the central controller if any failure or degradation of signal occurs either in the record or playback systems. The central controller will display the failed alerts and immediately sound any appropriate audible alarms as well. The transport module designated as standby will automatically begin to record in parallel upon notification of a failure in the primary unit.

14. ALARM/ALERT DURATION SELECTION

Major alarms can be selected for a length of 1 to 4 minutes or continuous until manually canceled. The words ALARM appear for major failures. Minor alerts are called WARNINGS and have an alarm duration setable between 1 and 90 seconds.

15. SAFE SCAN OPTIONS

The Veritrac 9000 allows a user to program each transport's safe scan routine for special operations. You may have unused channels on your system and you can direct the safe scan to skip these channels. You can program your timer-delay anywhere from 8 to 60 seconds.

16. MACHINE ID NUMBER

The Veritrac 9000's time code allows a 3 digit machine ID to be programmed into the system. The deck number within the system is also input. The complete information in the time code that is recorded on the tape and displayed on the master controller screen is 3 digit machine ID, deck number, year, month, day, hour, minute, and second.

17. AUTOMATIC TIME/DATE ENCODING

Each Veritrac 9000 transport module contains its own time code generator. This time code is synchronized to the master time code located in the central controller. Should the central controller fail to provide synchronization, then the time code generator will revert to its own internal crystal and continue to provide time, month, day, hour, minute, and second on the master controller screen. This time code is multiplexed on channel three and allows for full audio recording. The time system can be programmed to automatically change the time with the beginning and end of daylight savings time.

18. TIME CODE SYNCHRONIZATION

The master controller accepts external time signals to keep the entire Veritrac 9000 synchronized. Examples are the following: one pulse per second or a time source such as IRIG-E. The master controller also provides syncing information to other systems allowing the Veritrac 9000 to become the master time system.

19. OVER RECORD PROTECTION

The over record protection feature prevents accidental over recording of valuable tapes. There are three options for the user. If NO is selected the tape is not checked for audio. If ALERT is selected, a prompt is displayed if recording is found. If NO REC is selected and recording is found, the STOP legend flashes on the record screen and the READY or RECORD commands will be canceled.

20. MULTI LANGUAGE OPERATION

The ability exists to have the screens displayed in one or more of four languages: English, German, Spanish, and French.

21. AUTOMATIC TIME/DATE SEARCH

The Veritrac 9000 provides automatic search to any time/date on any transport from the central controller or remote controller. After selecting the search screen, the time/date desired is entered into the microprocessor. Upon command, the microprocessor controlled digital reader searches the selected transport at up to 700 times normal speed. When the time/date is located the transport will stop with no overshoot and begin playing.

When the system is searching a tape that was not continuously recorded but VOX controlled, the time/date entered could be invalid (not on tape). If the microprocessor finds this condition during search, the tape will stop at the nearest time preceding the command and display "search time not present" on the master controller screen.

22. AUDIO SEARCH

The Veritrac 9000 provides a method of automatically searching a selected channel for audio at 100 times normal speed. When this function is selected from the master controller, the tape will begin to move either forward or reverse at 100 times normal speed until audio is detected. The system will stop upon audio detection and begin playing that message. If the operator desires another message, then a touch to the designated soft key will cause the system to search through blank tape to the next message.

23. MANUAL VARIABLE SPEED SEARCH CONTROL

The Veritrac 9000 provides an alternative method of searching the tape. The master controller has a variable speed dual directional soft membrane strip that allows for manual searching. This control speeds the search from 0 to 400 times normal, both forward and reverse, at seven different speeds. When you remove your finger from the strip, the system automatically stops and begins playing.

24. AUTOMATIC RE-RECORD

The Veritrac 9000 offers another function that utilizes the search for audio feature. You can enter the auto record function from the master controller and if your system is equipped with the optional cassette re-record panel, command a cassette copy to be produced from the selected channel. Blank tape will be automatically skipped and only those portions containing audio will be played at recorded speed. This will condense the audio on the cassette and the skipping of blank tape at 100 times normal speed will greatly speed up the whole process.

25. RE-RECORD UNTIL

As part of the record process just described, you may also program into the master controller, the time and date you wish the auto re-record function to cease automatically.

26. DUAL CHANNEL RE-RECORD PANEL

You can equip your system with an in-built, cassette, two channel re-record unit. The conversation will be re-recorded on one channel, and a synthesized voice time will be recorded on the second channel. Thus, the cassette will have both the conversation and the time it was originally recorded provided to the listener when the tape is played. The time is stated every ten seconds.

27. PROGRAMMABLE START-STOP

For those applications that require recording only during business hours, the Veritrac 9000 can be programmed from the central controller to automatically start operating and cease operating at predetermined times on each day of the week.

28. AUTO RESTORE

For those applications where the interruption of a recording on an in-use transport is important for an immediate search and playback, the Veritrac 9000 provides the auto restore function. When this command is entered on the central controller, the tape will automatically search forward until the last recorded message is passed and stop on clean tape. The system will automatically return to the record mode and begin normal operation.

29. AUTOMATIC NOISE ELIMINATOR (ANE)

During playback of critical communications, the Veritrac 9000 recognizes that background noises that were recorded could cause less than desired clarity of playback. The ANE feature can be enabled through the central controller to filter out these noises and enhance the playback clarity dramatically.

30. TAPE REMAINING INDICATOR

The Series 9000 displays in hours, the amount of tape remaining on all transports on the central controller screen. This is especially valuable when tapes are used for more than one day.

31. AUTOMATIC TAPE LOAD DIAGNOSTICS

The Veritrac 9000 will automatically run a diagnostic sequence whenever a new tape is loaded on a transport module. This test checks for low frequency response on all channels, high frequency response on all channels, if back-up amplifiers are present they are also tested, time code and guard tone is checked as well. If the transport passes all tests, the "Deck OK" prompt will display on the central controller screen and the deck will be placed into the ready mode.

32. FULL FUNCTION REMOTE CRT CONTROL PANEL

The entire Veritrac 9000 system can be controlled remotely with this optional unit. The unique design allows for up to 4 remote controllers with one system and privacy is provided. One remote CRT controller can be used with multiple 9000 systems as well.

33. COMPATIBILITY

The Veritrac 9000 is tape-to-tape compatible with the Veritrac 5000 and will display the Veritrac 5000 time.

34. SERVICE DIAGNOSTIC ROUTINE

The Veritrac 9000 software contains a complete service routine that can identify any system failure to the board level and also verify on a continuous basis that every module within the system is operating at its published specifications.

35. PORTABLE REPRODUCER

The optional Veritrac 9000 reproducer provides all of the playback features described above. The unit also contains a variable speed control and a variable auto-back space that make the system operate like a full function transcriber.

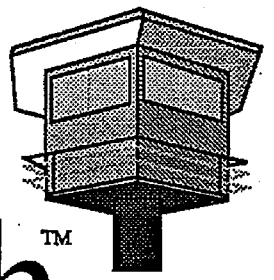
36. REDUNDANT SYSTEMS

For those applications that require 100% redundancy, the Veritrac 9000 can be configured with 100% back-up record amplifiers, 100% back-up transports and electronics, 100% back-up time code systems, and 100% back-up power supplies.

6

Dictaphone
A Pitney Bowes Company

Call Watch™



Inmate Telephone Monitoring System

000491

SPECIFICATIONS

INMATE TELEPHONE MONITORING SOFTWARE

1.0 An **Inmate Telephone Monitoring Software package** shall be provided. This package shall be capable of storing and indexing all SMDR (Station Message Detail Recording) information generated by a PBX or TIP and RING scanner.

1.1 This software must be completely operational when installed. After installation and acceptance, the vendor shall guarantee it for a period of one year and will provide any corrective upgrades or changes at no charge during such period.

1.2 The vendor shall guarantee support for the software described in this specification for a period of not less than 5 years.

1.3 Support personnel employed directly by the software vendor must be able to respond within one working day in the event support is required.

1.4 The successful bidder shall provide a comprehensive operational and installation manual with the software package.

1.5 The successful bidder shall provide full installation of this software.

1.6 The vendor shall provide on site training and instruction for operators, covering the complete software package. This training is to be performed by **direct employees of the software provider**.

2.0 **Down Loading (SMDR) Call Records**

The software shall provide for automatic down loading of the Call Records (SMDR Data) without operator involvement at a preprogrammed time. The capability to down load Call Records at any time shall be possible by selecting the appropriate menu choice.

2.1 The software shall allow the capability to view the current day's unprocessed SMDR data.

6.0 Case Files

Case Files shall be available to store information obtained from call investigations and SMDR Data.

6.1 **The Location File** shall hold specific information on the location of the telephone number dialed. This information shall be in the format of name, address and activity at that telephone location. There shall be the capability to enter free form notes relating to this location. This file, once opened, shall always be assigned to the location telephone number, so that whenever that location number is selected from the on-line Call Records, the file is automatically available.

6.2 **The Call Record File** shall store information for a specific telephone call. This file shall contain the area code, telephone number, inmate making the call, date, time, length of call and any other specifics regarding that telephone conversation. This Call Record file shall be permanently linked to the location file for all future searches. **If a Call Record is being viewed, it shall be possible to view the linked Location File with a single key stroke**.

6.3 **The Inmate File** shall be available for each inmate in the facility. This file shall contain the ID number, name, alias, affiliation and free form notes for general comments on that specific inmate. The software shall provide the capability to link an inmate file to a specific Call Record file. **While viewing a Call Record file it shall be possible to view the linked Inmate File or Location File with a single key stroke**.

7.0 Telephone Books

The software shall provide a method to associate individual telephone numbers with specific inmates, agencies or staff members.

7.1 **The Inmate Telephone Book** shall allow for all known telephone numbers specific to each inmate to be stored along with a brief description of each number.

7.1.1 The software shall allow any telephone number within any inmate's telephone book to be selected for automatic reporting. This report shall notify the operator of every telephone call made to any selected telephone number during the reporting period. This report shall contain inmate ID and name, number called, date, time, length of call, channel on the voice logger and whether a case or location file has been opened on that Call Record.

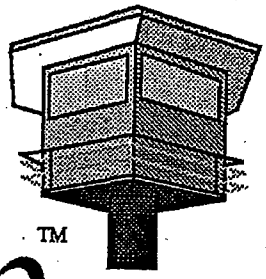
9.0 The inmate monitoring software specified shall run on an **IBM/AT or compatible** computer.

9.1 Operating system shall be MS-DOS or PC-DOS.

9.2 There shall be no requirement for extended or expanded memory beyond the 640K RAM memory available to a AT class computer **to run this program**.

Dictaphone
A Pitney Bowes Company

Call Watch™



Inmate Telephone Monitoring System

000495

SPECIFICATIONS

INMATE TELEPHONE MONITORING SOFTWARE

1.0 An **Inmate Telephone Monitoring Software package** shall be provided. This package shall be capable of storing and indexing all SMDR (Station Message Detail Recording) information generated by a PBX or TIP and RING scanner.

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1.6 The vendor shall provide on site training and instruction for operators, covering the complete software package. This training is to be performed by **direct employees of the software provider.**

2.0 **Down Loading (SMDR) Call Records**

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2.1 The software shall allow the capability to view the current day's unprocessed SMDR data.

AT&T Response To
Request For Proposal: No. CRFP2562

PUBLIC PAY TELEPHONE SERVICE
for
STATE OF WASHINGTON
DEPARTMENT OF CORRECTIONS

AT&T Prime Proposal

AT&T

GTE Communications

PTI Communications

US WEST Communications

000497

COPY

Volume
November 12, 199

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Volume 1

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Volume 2

GTE

TECHNICAL
Equipment
#41

Can comply with the requirement of equipment registration with FCC. Attach a copy of proposed equipment FCC numbers and label Technical, Equipment #41.

GTENW RESPONSE:

1. **Inmate Telephone**

   CEECO 321-FP

   FCC#: BW-8877-68413-TE-T

   Ringer Equivalency 0.7A

2. **Monitoring/Recording**

   Dictaphone Veritrac

   Series 9000 Voice

   FCC#: AAM95B-72355VP-N

   Ringer Equivalency AC.1B DC 2.5

3. **Inmate Call Control**

   Value Added Communications

   System 20

   FCC#: BIV9CE-68746-DI-T

   Ringer Equivalency 0.8B

PTI

TECHNICAL
Equipment
#41

Can comply with the requirement of equipment registration with FCC. Attach a copy of proposed equipment FCC numbers and label Technical, Equipment #41.

PTI RESPONSE:

1. **Inmate Telephone**

   CEECO 321-FP

   FCC#: BW-8877-68413-TE-T

   Ringer Equivalency 0.7A

2. **Monitoring/Recording**

   Dictaphone Veritrac

   Series 9000 Voice

   FCC#: AAM95B-72355VP-N

   Ringer Equivalency AC.1B DC 2.5

3. **Inmate Call Control**

   Value Added Communications

   System 20

   FCC#: BIV9CE-68746-DI-T

   Ringer Equivalency 0.8B

US West

TECHNICAL
Equipment
#41

Can comply with the requirement of equipment registration with FCC. Attach a copy of proposed equipment FCC numbers and label Technical, Equipment #41.

U.S. WEST RESPONSE:

Due to regulatory constraints, U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

Cecco

INMATE CHARGE-A-CALL

301-FS, 321-F, 303-FS, 323-F

The CEECO Stainless Steel Wall Mounted Telephones were specifically designed for use in prisons, jails and other non-public locations subject to fraud and abuse. All models feature rugged stainless steel construction, heavy gauge stainless steel backplate with high security brackets (full size models), paystation type chrome hookswitch and cradle, armored cord handset with chrome retaining swivel and internal steel lanyard, tamper proof security screws, and vandal resistant chrome tone dials. Models available with standard network or microprocessor-based anti-fraud call restriction network.

FEATURES

- *LINE POWERED (NO AC REQUIRED).*
- *RUGGED STAINLESS STEEL REDUCES VANDALISM AND GRAFFITI.*
- *STEEL LANYARD INSIDE ARMORED CORD HANDSET ANCHORS TO BRACKET WELDED WITHIN HOUSING.*
- *CHROME TONE DIAL WITH GOLD CONTACTS AND CONDUCTIVE RUBBER MEMBRANE RESISTS MOISTURE, HEAT AND ABUSE.*
- *STANDARD MOUNTING FOOTPRINT ON FULL SIZE MODELS (DIRECT REPLACEMENT FOR WE 10A).*
- *SMART MODELS AVAILABLE TO PROVIDE FIELD PROGRAMMABLE CALL RESTRICTIONS WITH ANTI-FRAUD FEATURES.*
- *TAMPER PROOF HIGH SECURITY MOUNTING SYSTEM.*
- *FULL SIZE OR MINI SIZE.*
- *ONE YEAR WARRANTY.*
- *FCC REGISTERED.*

Incremental Call Timing Feature NOW AVAILABLE

CEECO®

Serving The Telephone Industry Since 1930

Communication Equipment And Engineering Company

1580 Northwest 65th Avenue
Plantation, Florida 33313
Office:(305) 587-5430
FAX: (305) 587-5440

000507

SPECIFICATIONS

ORDERING INFORMATION

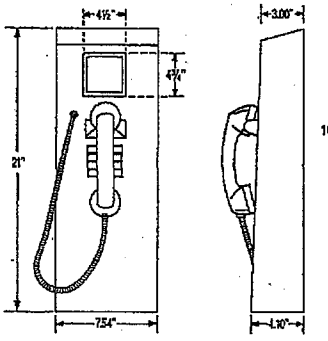
Standard Charge-A-Call Models (All call restrictions provided by Central Office).

PART NO.	DESCRIPTION
301-FS (P)	Inmate Charge-A-Call Standard Size
321-FS (P)	Inmate Charge-A-Call Mini Size

Smart Charge-A-Call Models (Field Programmable call restrictions).

PART NO.	DESCRIPTION
303-FS (P)	Smart Inmate Charge-A-Call Standard Size
323-FS (P)	Smart Inmate Charge-A-Call Mini Size
ALL MODELS REQUIRE:	
301-037	Security Tool

MECHANICAL DIMENSIONS



Measurements

301-FS or 303-FS
(AS SHOWN)

321-F or 323-F
10-3/4" H x 5-1/4" W 5-1/2" D
6lbs.

INPUT POWER: CO Loop Current, 23Ma
Minimum—Loop Start Line

IMPEDANCE: 600 Ohms

TRANSMISSION: DTMF
Low Group—12 ± 2dBm
High Group—10 ± 1dBm
Timing—70/50Ms

DIAL TONE: Precision—350/440Hz
Standard—600.120Hz

CONSTRUCTION: Brushed Stainless Steel

WEIGHT: 17lbs (Full Size)

MOUNTING: Standard "1" type public telephone footprint

HEARING AID COMPATIBILITY: Meets E.I.A. Standard RS-504

ENVIORNMENTAL: Sheltered, 0°—50° C
20% to 90% Humidity, Noncondensing

TYPE CONNECTION: RJ11C

ADDTIONAL SPECIFICATIONS FOR SMART MODELS:

PROGRAMMING: DTMF Keypad

DSI CONTROL: Detects called party disconnect

MEMORY RETENTION: Lithium Battery - Long Life

CEECO

Serving The Telephone Industry Since 1930

Communication Equipment And Engineering Company

1580 Northwest 65th Avenue
Plantation, Florida 33313
Office:(305) 587-5430
FAX: (305) 587-5440

000508

Call Data

Call Watch™ — The Intelligent Choice
Dictaphone
Call Watch™
Inmate Telephone Monitoring System

Dictaphone
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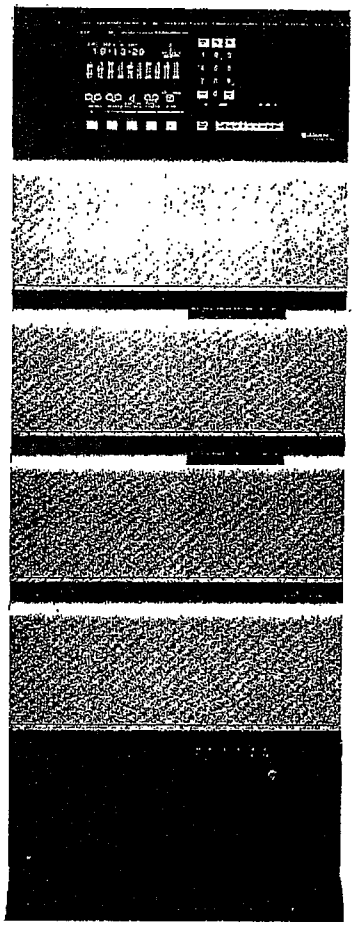


Veritrac 9000 Communications Recording System

The Call Watch system begins its call tracking procedure by first identifying the area code and telephone number for each call made by inmates. The system then further identifies calls, by indicating the call date, time of call, length of call, deck/channel location on the recording logger, and the correctional facility where the call was made from.

Case Files

Investigators can begin developing detailed case files which the Call Watch system will manage and organize for them. The following case file options are available with the Call Watch monitoring system:

Location File - allows investigators to gather information relating to the location of each telephone number dialed; such as the name, address, and suspected activity at that location. The Location File is automatically linked to each telephone number for easy reference.

Call Detail File - allows investigators to store information on a specific telephone conversation, including details such as the telephone number, the date, time, and length of call, as well as any information specific to that call obtained from reviewing the recorded telephone conversation. The Call File is permanently linked to the Location File, for more detailed review.

Inmate File - allows you to create an information file for each inmate in your facility, storing information such as: inmate I.D. number, name, alias, and any other general comments on suspected activities. This information is automatically linked to the Call Detail File.

Telephone Books

The "Books" function allows users to maintain complete telephone books for individual inmates, staff members, groups, and agencies. Here, reports on telephone numbers currently under investigation can be generated on an ongoing basis. Any number within an inmate's telephone book can be selected for automatic reporting.

In addition to telephone books, a variety of features are also available with the Call Watch system. To name a few:

Phone Summary - provides a listing of all outside numbers called and what inmates are calling a specific number.

Inmate Summary - shows all numbers called by a specific inmate.

Case Summary - displays all information contained in the Case Files, which include the Location, Call Detail, and Inmate Files.

Archiving - allows storage of up to one year of call records. This information can then be retrieved by month and viewed on-line at any time.

Veritrac® System

Combining the Call Watch inmate monitoring system with Dictaphone's Veritrac communications recording system is a must for any prison. The Veritrac logger is the ultimate source for accurate, reliable telephone recording. A totally new concept in multi-channel telephone recording, it looks and works like no other. All reels are located in easily accessible slide drawers, while controls are centrally located on one master controller CRT monitor. Important features include:

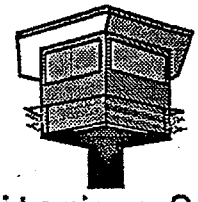
- Expandable to record up to 240 calls simultaneously.
- Expandable from 1-4 decks.
- Computerized master controller with exclusive CRT screen.
- Three different search functions access information at up to 700 times normal playback speed.

This is only a small part of what Dictaphone's Call Watch system can do for you. For further information contact your Dictaphone representative.

1 5000

Dictaphone
A Pitney Bowes Company

CALL WATCH™



Inmate Telephone Monitoring Systems

DICTAPHONE CORPORATION

Communications Recording Systems Division

CALL WATCH™ Inmate Telephone Monitoring

Master Specification

L-1254

SPECIFICATIONS

INMATE TELEPHONE MONITORING SOFTWARE

1.0 An **Inmate Telephone Monitoring Software package** shall be provided. This package shall be capable of storing and indexing all SMDR (Station Message Detail Recording) information generated by a PBX or TIP and RING scanner.

1.1 This software must be completely operational when installed. After installation and acceptance, the vendor shall guarantee it for a period of one year and will provide any corrective upgrades or changes at no charge during such period.

1.2 The vendor shall guarantee support for the software described in this specification for a period of not less than 5 years.

1.3 Support personnel employed directly by the software vendor must be able to respond within one working day in the event support is required.

1.4 The successful bidder shall provide a comprehensive operational and installation manual with the software package.

1.5 The successful bidder shall provide full installation of this software.

1.6 The vendor shall provide on site training and instruction for operators, covering the complete software package. This training is to be performed by **direct employees of the software provider.**

2.0 **Down Loading (SMDR) Call Records**

The software shall provide for automatic down loading of the Call Records (SMDR Data) without operator involvement at a preprogrammed time. The capability to down load Call Records at any time shall be possible by selecting the appropriate menu choice.

2.1 The software shall allow the capability to view the current day's unprocessed SMDR data.

3.0 **Storage of Call Records (SMDR Data)**

The software shall be capable of maintaining an unlimited number of call records (except the physical limitations of the storage media, i.e. hard disk size) on line.

All call records must be stored on site and shall be available to the operator on demand. Any off premise storage of Call Records is unacceptable. Failure to meet this requirement is cause for bid rejection.

4.0 **Archiving of Call Records (SMDR Data)**

The software shall be capable of maintaining up to one full year of Call Records (subject only to hard disk size). The system management of these archived Call Records shall be completely automatic and transparent.

4.1 The system operator shall only need to set the initial parameters of the number of months to archive (up to 12) and the number of days to maintain on-line (up to 90 days) and management shall be automatic.

4.2 Selection of archived months for on-line use shall be accomplished from a menu selection containing a pop-up list of all months currently in archive. Highlighting and selecting the desired month shall automatically load that month into the on-line program. **Loading an archived month to on-line use shall not take more than 5 seconds.**

5.0 **Search and Retrieval of Call Records (SMDR Data)**

It shall be possible to search and locate any specific Call Record from the on-line data base by any of the following search fields:

1. Area Code
2. Phone Number
3. Date
4. Time of Call
5. Length of Call
6. Channel Location on Voice Logger
7. Booth or Pay Phone Location

5.1 **The search method shall be incremental.** As each number is typed into the search field, the system shall instantaneously locate that number and for each subsequent number, continuing this incremental search until the full number is typed in and located. The software must locate at or near the typing speed of the operator.

6.0 Case Files

Case Files shall be available to store information obtained from call investigations and SMDR Data.

6.1 **The Location File** shall hold specific information on the location of the telephone number dialed. This information shall be in the format of name, address and activity at that telephone location. There shall be the capability to enter free form notes relating to this location. This file, once opened, shall always be assigned to the location telephone number, so that whenever that location number is selected from the on-line Call Records, the file is automatically available.

6.2 **The Call Record File** shall store information for a specific telephone call. This file shall contain the area code, telephone number, inmate making the call, date, time, length of call and any other specifics regarding that telephone conversation. This Call Record file shall be permanently linked to the location file for all future searches. **If a Call Record is being viewed, it shall be possible to view the linked Location File with a single key stroke.**

6.3 **The Inmate File** shall be available for each inmate in the facility. This file shall contain the ID number, name, alias, affiliation and free form notes for general comments on that specific inmate. The software shall provide the capability to link an inmate file to a specific Call Record file. **While viewing a Call Record file it shall be possible to view the linked Inmate File or Location File with a single key stroke.**

7.0 Telephone Books

The software shall provide a method to associate individual telephone numbers with specific inmates, agencies or staff members.

7.1 **The Inmate Telephone Book** shall allow for all known telephone numbers specific to each inmate to be stored along with a brief description of each number.

7.1.1 The software shall allow any telephone number within any inmate's telephone book to be selected for automatic reporting. This report shall notify the operator of every telephone call made to any selected telephone number during the reporting period. This report shall contain inmate ID and name, number called, date, time, length of call, channel on the voice logger and whether a case or location file has been opened on that Call Record.

7.2 **The Agency Telephone Book** shall allow for telephone numbers of specific interest to any outside agency to be stored along with a brief description of each number.

7.2.1 The software shall allow any telephone number within any agencies telephone book to be flagged for reporting. When the agency report is run, all numbers selected that were called during the report period shall be listed. Each agency report shall be reported separately.

7.3 **The Staff Telephone Book** shall allow for telephone numbers specific to each staff number to be stored.

7.3.1 The software shall allow for automatic reporting of any calls made to the selected numbers from a monitored inmate telephone.

7.4 **The Group Telephone Book** shall allow for categorization of like calls to be stored along with a description of each group.

7.4.1 The software shall allow for automatic reporting of any like telephone numbers selected that were called during the report period. Each group report shall be listed separately.

8.0 **The software package shall contain the ability to generate reports**. These reports shall be either automatic at a preprogrammed time or upon demand. These reports shall be sent to a printer, screen or to a disk file if the printer or screen are not secure. Automatic reports shall include inmate, agency, staff and group reports generated from the information stored in the telephone books. These reports can be manually produced at any time as well.

8.1 **The Phone Summary Screen** shall provide a listing of all outside numbers called and what inmates are calling a specific number. All Case files including location, call and inmate must be available for viewing with one key stroke if a call report is selected.

8.2 **The Inmate Summary Screen** shall show all numbers called by a specific inmate. All case files, including location, call, and inmate must be available for viewing with one key stroke if a call record is selected.

8.3 **The Case Summary Screen** shall include all numbers called that are under investigation and linked through the same case number. All Case files pertaining to a phone location shall be available with one key stroke. Highlighting a specific call record is a case report and selecting it shall display a complete case summary with inmate, call and location files show on one screen.

9.0 The inmate monitoring software specified shall run on an **IBM/AT or compatible computer**.

9.1 Operating system shall be MS-DOS or PC-DOS.

9.2 There shall be no requirement for extended or expanded memory beyond the 640K RAM memory available to a AT class computer **to run this program**.

VERITRAC
9000

Dictaphone
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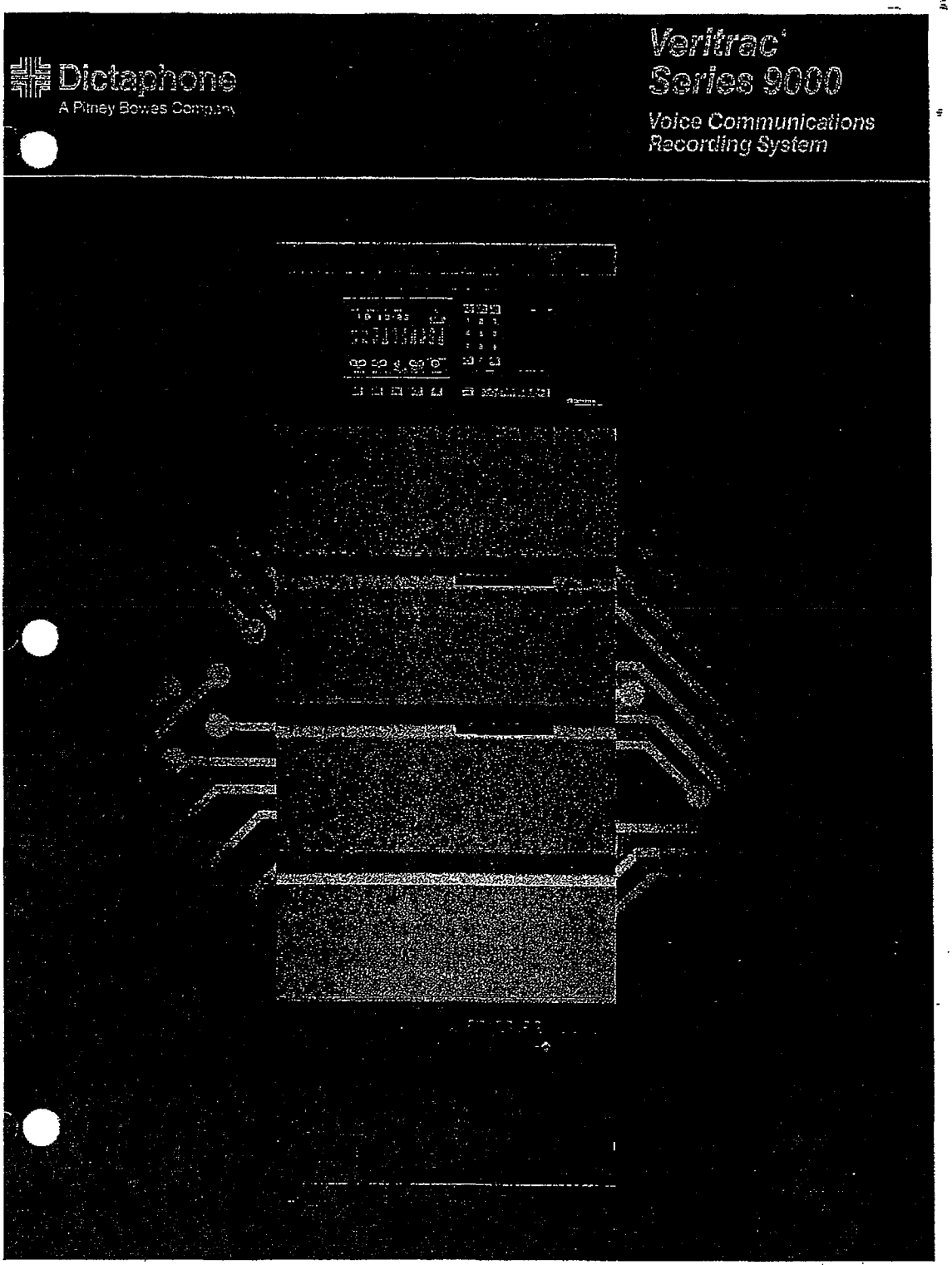
Veritrac® Series 9000

Voice Communications Recording System



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Veritrac®
Series 9000

Voice Communications Recording System

Why Modular?

So you can be sure the recording system you select is right for your particular application.

You order one of two different modular cabinets. Then you specify the components that match your individual requirements.

The *Standard Cabinet* is for small to medium-size installations of up to 120 channels. It consists of 6 modules.

The *Expanded Cabinet* is for larger installations up to 240 channels and consists of 8 modules.

The modules are built to hold the following components.

Standard Cabinet	*Expanded Cabinet*
	Record Amps
Record Amps	Record Amps
Master Controller	Master Controller
Deck #1	Deck #1
Deck #2	Deck #2
Accessories	Deck #3
Power Supplies	Deck #4
	Power Supplies

High Density Recording

Because the system's modules are stacked vertically, 240 channels of recording take only 5 sq. ft. of floor space – cutting space requirements in half for most large installations.

Unprecedented Configuration Flexibility

All Important System Operations Can Be Programmed To Your Needs. Your personnel can customize the system's operational parameters. For example, they can program the system to start and stop recording at predetermined times – any time of the day or night, any day of the week.

The Expanded Cabinet

Module #1
Record amplifiers with room for back-up amplifiers.

Module #2
Additional record amplifiers or accessories if needed.

Module #3
Master System Controller CRT Monitor, the computerized command-center for the entire system.

Module #4
Primary tape deck, capable of recording up to 60 channels simultaneously.

Module #5
Deck #2, ready to record up to 60 more channels (total: 120 channels). This deck and the 2 below can be used to increase recording capacity, back up the other decks in case of failure, or enable you to playback and listen while the system is still recording.

Module #6
Deck #3, capable of recording an additional 60 channels (total: 180 channels).

Module #7
Deck #4, capable of recording 60 more channels (total: 240 channels).

Module #8
Power supplies and batteries, with room for redundant back-up power supplies.

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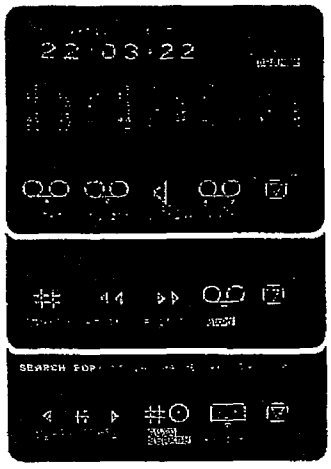

Easy-to-read CRT screens indicate all you need to know about the system's operation.

Or suppose reliability is your #1 Priority. But you need the 120 channels that two decks can provide, and are not ready to invest in *another* two decks for 100% redundant back-up. You can achieve 50% redundancy by ordering just one more deck and configuring it to monitor the other two. If one fails, this deck will automatically take over.

Unprecedented Expandability

As your organization changes and grows, so will your recording needs. That's why the Veritrac Series 9000 communications recording system makes so much sense. It can be upgraded and expanded quickly and economically right on your premises.

Suppose you start with just one deck to handle 30 phone lines. If you need to double the channel capacity in a few years, it can easily be done. Then, suppose you have to double the channel capacity again. Good news! The system is already pre-built for another deck with an additional 60-channel capacity. So today's investment will also be a sound investment for the future.

Computerized Command Center Puts Total Control At Your Fingertips

The Master Controller CRT Monitor with its powerful microprocessor, displays a series of easy-to-read screens. They indicate everything you need to know about the overall system, as well as each deck independently (e.g., which decks are in use, the mode of operation of each, how much recording time is left on each deck, if everything is functioning smoothly, etc.). At the same time, you direct all record, playback and search operations with state-of-the-art, multi-function controls.

Activity Monitor For All Channels. The CRT indicates by deck which channels have audio in both record and playback modes.

Full Function Remote Control From Multiple Locations. Up to 4 additional Controller CRT Monitors (optional) can be plugged into the Master Controller enabling personnel to monitor and control the system in private, one at a time.

Unprecedented Reliability

All Channel Safe Scan™ Feature. The microprocessor in the Master Controller monitors up to 240 channels simultaneously for the most reliable failure-detection system ever. Failure in any of the amplifiers or tape decks triggers audible and visual alarms. The recording operation can then automatically transfer to a back-up deck which continues time/date encoding and Safe Scan monitoring.

Full Array Of Audible And Visual Alarms. In the event of a failure, the system sounds an alarm and also indicates on the CRT where the failure occurred (e.g., "Amp-Failure," "Safe Scan Failure," "Power Supply Failure," "Low Frequency Failure," "High Frequency Failure," etc.). The audible alarm system registers two types of failures (minor and major).

Each Deck Has Its Own Independent Microprocessor And Controls. In the unlikely event of a Master Controller failure, all decks continue to operate independently. Each stands on its own, with its own microprocessor and controls.

Optical Tape Break Sensors For All Reels. Warn you of a tape break regardless of where it occurs on the reel.

The Only System With A Built-In UPS (Uninterruptible Power Supply). During brown-outs or power outages, the system will continue to function on its own for a *minimum* of 10 minutes until external emergency power is available.

Tape transports are all tucked away in easily accessible locking slide drawers. Each has its own microprocessor and back-up controls.

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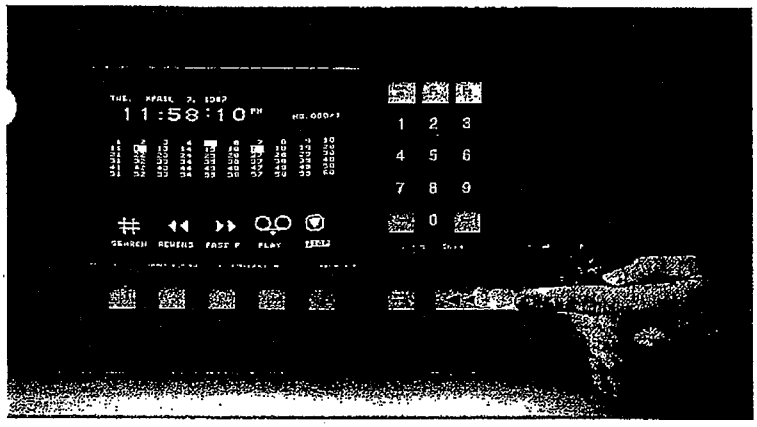

State-of-the-art fingertip controls.

Back-Up Amplifiers And Power Supplies Provide 100% System Redundancy. The modules have been prebuilt for optional amplifiers and power supplies to ensure uninterrupted operation.

Three Search Functions Help You Locate Recorded Communications Faster Than Ever Before

Full Variable Search With Fingertip Speed Control. Sliding fingertip across soft membrane switch varies search speed up to 400 times normal playback speed.

High-Speed AutoSearch™ To Time/Date With No Overshoot. Microprocessor controlled digital time reader locates the time/date of your choice at up to 700 times normal playback speed, then automatically starts playback.

Search For Audio. Skips blank tape at up to 100 times normal playback speed while it automatically locates each recorded communication and begins playback until directed to move to the next communication.

Time Synchronization From And To An External Source

Automatic Time/Date Encoding System. Encodes tapes with the year, date, and time in hours, minutes, and seconds. Date notation is programmable three ways: month/day, day/month, or Julian dating.

Accepts Time Synchronization Signal From External Time Source. The Master Controller synchronizes the time on all decks so the entire recording system is in sync with an external system. Accepts a variety of external time codes including IRIG-E.

Provides Time Synchronization Signal To External Time System. The Master Controller can provide a time sync signal to an external time system thus becoming the "Master" for the entire system.

Additional Features

Programmable Multiple Levels of Security permit only operators with the right clearance to access specific functions.

Automatic Rerecord Function locates recorded audio and eliminates blank tape for convenient rerecording on to an optional cassette recorder.

Auto Tape Load Diagnostics verifies tape is running properly. Runs tape; records; checks time/date code, high and low recording frequency performance, Safe Scan operation; and then switches deck to "Ready To Use" mode.

Auto-Restore locates the end of the last recorded communication and automatically resumes recording at a safe distance from last message.

Field Upgradable Channel Capacity. The system is available with ¼" tape for 4-8 channels, ½" tape for 10-20 channels, and 1" tape for 20-60 channels per deck.

Complete Service Diagnostic Routine automatically "trouble shoots," identifies problem areas, aiding service personnel in locating any failure.

Programmable Machine ID Encoding on all tapes for installations with multiple recorders.

Automatic Noise Eliminator (ANE) improves sound quality dramatically by reducing recorded interference.

Programmable Record Start And Stop Times to automatically start and stop recording at pre-set times.

Simultaneous Multi-Channel Playback by deck (up to 60 channels) with monitoring through built-in speaker, headphone jack, or cassette record jack.

Built-In Universal Telephone/Radio Channel Interface eliminates additional installation costs for most applications (FCC approved).

Convenient Service with over 700 Customer Service Representatives at more than 240 offices nationwide to provide the most complete system support in the industry.

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Dictaphone has combined advanced microprocessor technology with their extensive experience as the leading manufacturer of communications recording equipment to create the ultimate multi-channel recording system.

It's ideal for business and finance applications, public safety, law enforcement, government agencies, transportation, industrial and private security, or any application that requires accurate records of all telephone and radio communications.

The Veritrac® Series 9000 represents a totally new concept in multi-channel recording systems. It looks and works like no other. None of the traditional tape reels and controls are visible. All reels are tucked away in easily accessible slide drawers, while all the controls are centrally located on one Master Controller CRT Monitor.

It's a revolutionary, new "modular" system designed to record up to 240 individual communication channels simultaneously, and to provide users with unprecedented reliability, flexibility, and expandability. Just the kind of breakthrough everyone expects from Dictaphone, the communications recording industry leader.

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Veritrac Series 9000 Specifications

CONFIGURATIONS

Standard cabinet: single or dual transport, up to 120 channels.
Expanded cabinet: two, three or four transports, up to 240 channels.
1 4 in. tape: 4 or 8 channels.
1 2 in. tape: 10 or 20 channels.
1 in. tape: 20, 30, 40, or 60 channels.
Optional: System components are 19 in. rack mountable (assumes transports mounted vertically).

PHYSICAL

Standard cabinet: 67 in. H x 24 in. W x 32 in. D (approx.): 400 lb. max.
Expanded cabinet: 88 in. H x 24 in. W x 32 in. D (approx.): 600 lb. max.
Transports mounted horizontally in locking slide drawers.

POWER

Source: 95-125 VAC, 60 Hz.
Consumption: standard cabinet, 4A 350W (550W peak); expanded cabinet, 7.5A 625W (850W peak).
Battery backup: standard; full operation for at least 10 minutes with one transport recording.
Back-up power supply: optional; fully duplicated supply.

RECORDING TIME

15 32 ips speed (standard): 25.6 hours per transport.
15.16 ips speed (optional): 12.8 hours per transport.
Tape length: 3600 feet of 1 mil tape.

TRANSPORTS

Motion control: dual differential capstan drive.
Record/play speed: 15 32 ips ± 1% standard; 15.16 ips ± 1% optional.
Fast wind speed: full 3600 foot tape length within 140 seconds.
Capstan motor: brushless DC, servo speed controlled.
Reel motors (2): brushless DC, torque or speed controlled.
Automatic diagnostics: on tape loading; operator selective.
Braking: fail-safe automatic activation on power loss.
Motion sensing: Optac™ system permits entering play from fast wind.
Break sensing: optical, reel runaway.
Controls: ready, record, stop, fast forward, rewind, play.
Tape: 1 mil x 1/4 in., 1/2 in., or 1 in. x 3600 ft.; 10-1/2 in. reels, NAB hubs.
(VOX) start time: less than 100 ms.
Safe Scan™: continuous automatic check of recording on all channels within 2 seconds.
Multiplexed time code: permits full use of all channels for recording.
Fully independent deck operation: audio and time code recording, Safe Scan™ and auto transfer continue without an operational system controller.

AUDIO

Frequency response: 300-3000 Hz ± 3 dB (15 32 ips); 300-6000 ± 3 dB (15 16 ips).
Standard record level: 70 nWb m.
Signal-to-noise (minimum): – 36 dB (standard record level), – 42 dB (peak record level), – 46 dB (with ANE).
Crosstalk: less than – 34 dB (standard record level).
Depth of erasure: equal to signal-to-noise.
Wow and flutter: 0.5% maximum peak weighted.
Distortion: 3% maximum THD at standard record level at 500 Hz.
Bias frequency: 42 kHz nominal.

INPUT

Modes: current sense, voltage sense, VOX or external start, FCC registered for direct connection to telephone network, beeping or beepless.
Input level: – 10, 0, – 10 or + 20 dBm.
Impedance: over 60 k ohms, externally adjustable to 600 ohms.
AGC: Range 40 dB minimum; attack time less than 17 ms. Recovery time 200 ms typical for + 20 dB step change; Compression, 3 dB maximum variation in record current for 40 dB change in input level.

AGENCY APPROVALS

U.S.: UL, FCC parts 15 and 68.
Canada: CSA, DOC.

CONTROL PANEL

CRT monitor: 9 in. monochrome screen.
Switch panel: touch sensitive membrane; 6 selection keys, numeric entry pad plus fingertip control manual search strip.
Speaker: 5 watts audio output; slide volume control.
Earphone jack: 5 watts audio output; 1 4 in. monaural.
Cassette jack: – 6 dBm; 1/8 in. monaural.
Date options: month/day, day month, Julian.
Time synchronization: line frequency, internal crystal, one pulse per second signal; can be driven by IRIG-E input; can be master or slave to synchronize other loggers.
Tape remaining indication: in hours for each deck.

Specifications subject to change or revision without notice

Full Line Of Accessories

- Portable Reproducer
- Remote Controller CRT Monitor
- Cassette Rerecord Panel
- Microphone Mixer/Preamplifier
- Active Combiner
- Remote Status/Alarm Panels
- Slave Clocks
- 20-Channel Line Output Amp
- Beeper Couplers

Dictaphone
A Pitney Bowes Company

3191 Broadbridge Avenue
Stratford, CT 06497-2559

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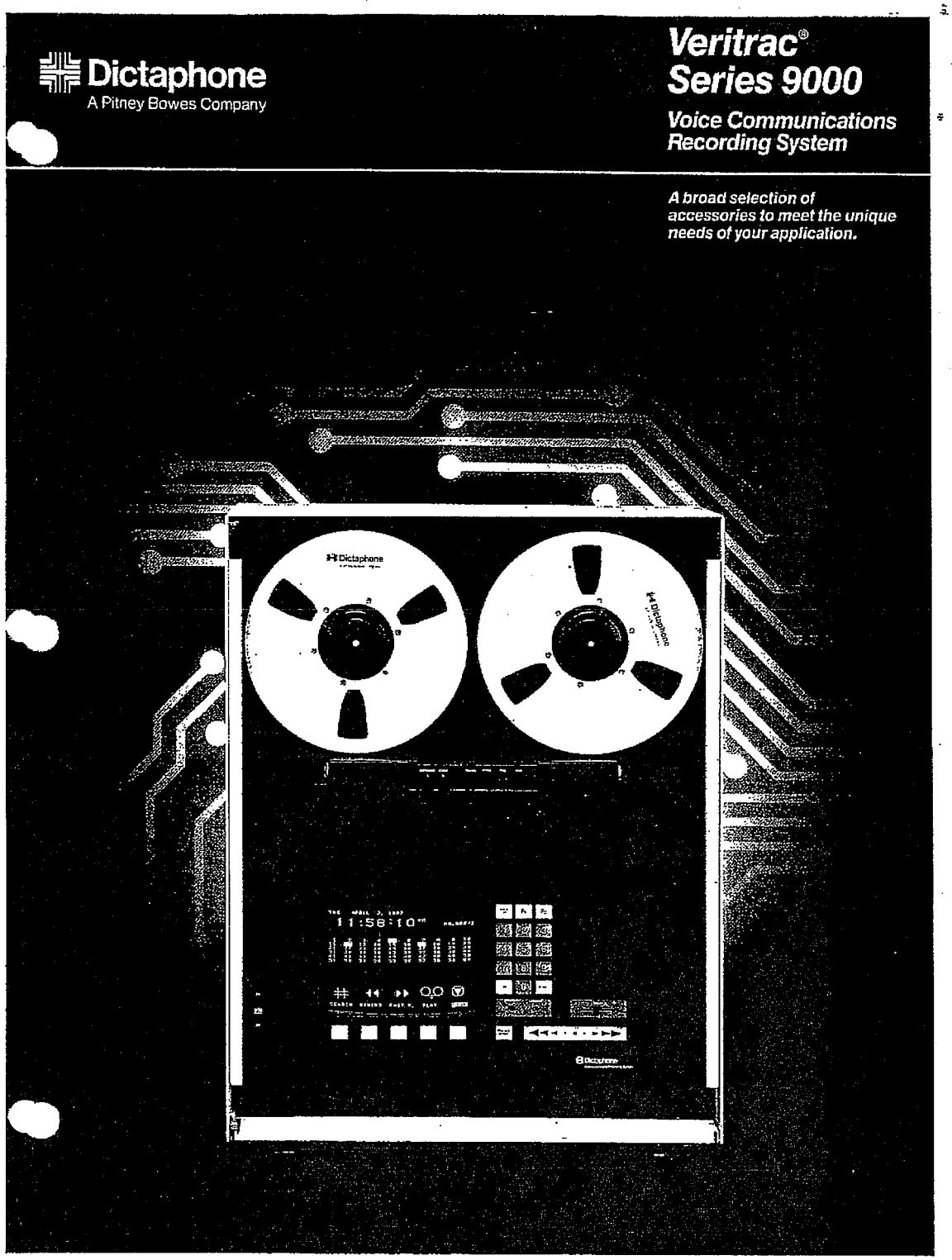
Veritrac® Series 9000

Voice Communications Recording System

A broad selection of accessories to meet the unique needs of your application.



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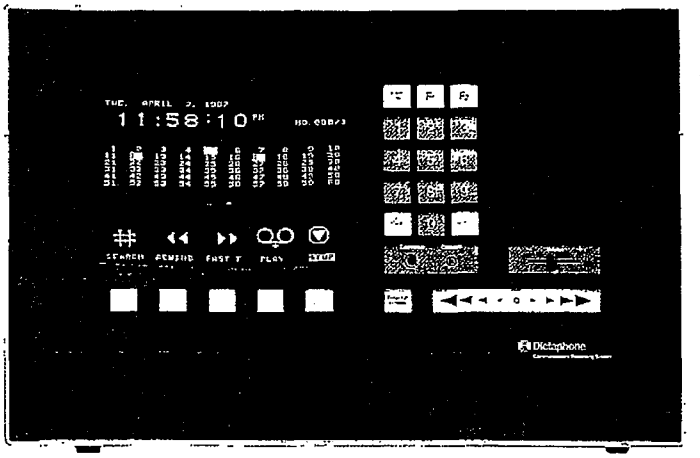
Veritrac Series® 9000

Voice Communications Recording System Accessories



The Veritrac® Series 9000 is the ultimate system for any organization that must maintain accurate records of all incoming and outgoing communications. It will record up to 240 telephone and radio conversations simultaneously, and has more automatic microprocessor-driven features to ensure total fail-safe operation than any communications recording system ever built.

The Series 9000 recording system has the broadest selection of accessories to meet the unique needs of your application.

Portable Reproducer
Playback only unit for review and transcription of tapes recorded on the Veritrac Series 9000 system. Includes Controller CRT Monitor and single transport deck. Easy-to-read CRT screen shows time and date of each recorded communication, and status of all functions. Three types of search—*Full Variable Fingertip Speed Control, High Speed AutoSearch™ To Time Date, and Search For Audio*—help locate recorded communications at up to 700 times normal recording speed. Will accommodate cassette rerecord panel. Includes transcription foot control and headset. Convenient carry-handles facilitate transportation to remote locations.
(Reproducer pictured on front.)

Remote Controller CRT Monitor
Microprocessor-driven unit permits full control of Veritrac Series 9000 recording system from remote location. CRT screen shows status of system as a whole, and each deck independently. All record, search and playback operations are directed with state-of-the-art, multi-function controls.
(Remote Controller pictured above.)

Cassette Rerecord Panel
Designed to be located inside the Veritrac 9000 Recorder or in the Reproducer. Records selected audio channels onto standard cassettes. VOX or continuous recording capability. 4-digit LED tape counter. Volume/balance control. Built-in microphone, and jacks for external mic. Head phone and monitor outputs. Second channel available with time code.
(Rerecord Panel pictured below.)

Active Combiner
Combines two different signals onto one audio track.

Remote Status Alarm Panel
Displays status of each deck from remote location. Alarm sounds if there is a failure. Rack or desktop mounting available.

Slave Clock
Bright LED display slaved to time in Series 9000 system Master Controller allows adjacent operations to be coordinated with the Series 9000 system. Rack, desktop or wall mounting.

Additional Accessories
- 20-Channel Line Output Amplifier
- Microphone Mixer/Preamplifier
- Beeper Couplers

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Dictaphone
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SPECIAL FEATURES OF THE VERITRAC 9000

1. POWER

120V A/C, 220v A/C, 240 A/C, 50Hz or 60 Hz, main power is converted to 15 - 18 volts DC for Veritrac 9000 system operation. This allows the entire system to be DC powered and makes it easy to include as STANDARD, an uninterruptible power system. The Veritrac 9000 will operate totally on its own internal battery for a minimum of 10 minutes! This DC operation will also allow the 9000 to be powered directly from external sources of DC power.

2. AGENCY APPROVAL

It is increasingly important that telecommunication users have assurances that systems they are procuring meet some basic standards. Outside agency approvals do attest to this requirement and the Veritrac 9000 has the following agency approvals and they do appear on the system labels: UL; CSA; DOC; FCC Part #15; FCC Part #68 and FCC Direct Connect #.

3. UNIVERSAL AUDIO INPUT

The Veritrac 9000 contains a universal input port for each audio channel. This universal input allows user selection through jumpers of any of the following options:

1. Peak input audio level of -10db, 0db, +db and +20bd.
2. Current sensing telephone on hook, off hook.
3. Voltage sensing telephone on hook, off hook.
4. VOX operation.
5. External closure start.
6. Input impedance of a maximum of 60k ohms, reducible anywhere down to 600 ohms.
7. Continuous run.

4. SECURITY

The Veritrac 9000 has multiple levels of security. Passwords must be programmed into the central controller that permit only operators with the right clearance to access specific functions. Each recording deck can have different passwords.

5. CENTRAL CRT CONTROLLER

The Veritrac 9000 has all system controls and monitoring located in a central control panel that utilizes a 9" monochrome CRT to display all functions and alerts. This screen has a membrane switch panel containing 5 soft keys, a dedicated previous screen key, a numeric key pad and manual search strip associated with it. In addition the volume control, speaker, and headset cassette jacks are on this panel. Located within the central controller is a powerful microprocessor that can completely control up to 4 individual transports and up to 240 channels of recording and playback. This computerized command center displays

a series of easy to read screens. They will indicate everything you will need to know about the overall system, as well as each transport independantly (e.g. which decks are in use, the mode of operation of each, how much recording time is left on each deck, if everything is functioning smoothly, etc.). At the same time, you direct all record, playback and search operations with the state-of-the-art multifunction controls.

6. ACTIVITY MONITOR

The screen on the computerized command center displays the number of channels available in the system (e.g. 4-60). In the record mode any channel that has active audio shows clearly in reverse video. When the playback function is selected, channels that have audio present also show in reverse video.

7. SIMULTANEOUS MULTI-CHANNEL PLAYBACK

The Veritrac 9000 allows anyone, any combination, or all channels to be selected for playback. The playback screen clearly shows channel selected in reverse video and the playback activity is now indicated on those channels by a bold display.

8. MULTIPLE TRANSPORT OPERATION

The Veritrac 9000 includes up to four transports in one system with up to 240 channels of recording. This allows for an unprecedented configuration flexibility! For instance, a 4 transport system can provide 60 channels of unattended recording for 4 days (96 hours)! A 4 deck transport system could provide 180 channels of on-line recording with the 4th transport providing 25% redundancy!

9. TAPE TRANSPORT MODULES

The Veritrac 9000 can be configured with as many as four advanced transport modules containing 4-60 channels each. The tape transport modules are contained in a slide mounted drawer that allows for easy access. The modules contain all necessary equipment to perform the tape transport functions, safe scan, time code writing, audio recording and playback and each contains its own microprocessor for control. An electro mechanical lock is provided on each module that is under the control of the central command controller. The drawers cannot be accessed unless the proper password has been entered into the system. It is possible to open these drawers with a key should there be a long power outage that precludes entering the proper password. These modules will continue to operate independantly if the central controller fails or is removed from the system. Each module contains backup control switches that provide ready record, stop, play, fast forward, and fast rewind functions for each module.

10. DUAL DIFFERENTIAL CAPSTAN DRIVE

The Veritrac 9000 tape transport provides tape motion with a dual capstan drive. This 3 motor, all DC power transport utilizes a brushless DC-Servo speed controlled capstan motor and two brushless DC, unique or speed control reel motors. Independent audio engineers and consultants advise that this type of drive is the best.

11. FIELD EXPANSION

The Veritrac 9000's unique transport design allows for tape transport expansion within tape size. That means if you have a system utilizing 20 channel 1" tape transports, they can be expanded to 30, 40, or even 60 channels at your location.

12. TAPE MOTION MONITORING

The Veritrac 9000's unique transport module monitors its own tape speed and spindle rotation to detect any variance in record speed or tape breaks, spills, or stalls. Any malfunction causes an immediate alert to be sent to the central controller to be displayed on the screen and an audible alarm sounds.

13. ALL CHANNEL SAFE SCAN

The Veritrac 9000 transport module's microprocessor monitors the performance of all channels continously. A 80 #2 guard tone is recorded on all channels except channel 3 which contains time code continuously. The safe scan monitors every channel taking only 1.875 seconds to scan all 60 channels and alerts the central controller if any failure or degradation of signal occurs either in the record or playback systems. The central controller will display the failed alerts and immediately sound any appropriate audible alarms as well. The transport module designated as standby will automatically begin to record in parallel upon notification of a failure in the primary unit.

14. ALARM/ALERT DURATION SELECTION

Major alarms can be selected for a length of 1 to 4 minutes or continuous until manually canceled. The words ALARM appear for major failures. Minor alerts are called WARNINGS and have an alarm duration setable between 1 and 90 seconds.

15. SAFE SCAN OPTIONS

The Veritrac 9000 allows a user to program each transport's safe scan routine for special operations. You may have unused channels on your system and you can direct the safe scan to skip these channels. You can program your timer-delay anywhere from 8 to 60 seconds.

16. MACHINE ID NUMBER

The Veritrac 9000's time code allows a 3 digit machine ID to be programmed into the system. The deck number within the system is also input. The complete information in the time code that is recorded on the tape and displayed on the master controller screen is 3 digit machine ID, deck number, year, month, day, hour, minute, and second.

17. AUTOMATIC TIME/DATE ENCODING

Each Veritrac 9000 transport module contains its own time code generator. This time code is synchronized to the master time code located in the central controller. Should the central controller fail to provide synchronization, then the time code generator will revert to its own internal crystal and continue to provide time, month, day, hour, minute, and second on the master controller screen. This time code is multiplexed on channel three and allows for full audio recording. The time system can be programmed to automatically change the time with the beginning and end of daylight savings time.

18. TIME CODE SYNCHRONIZATION

The master controller accepts external time signals to keep the entire Veritrac 9000 synchronized. Examples are the following: one pulse per second or a time source such as IRIG-E. The master controller also provides syncing information to other systems allowing the Veritrac 9000 to become the master time system.

19. OVER RECORD PROTECTION

The over record protection feature prevents accidental over recording of valuable tapes. There are three options for the user. If NO is selected the tape is not checked for audio. If ALERT is selected, a prompt is displayed if recording is found. If NO REC is selected and recording is found, the STOP legend flashes on the record screen and the READY or RECORD commands will be canceled.

20. MULTI LANGUAGE OPERATION

The ability exists to have the screens displayed in one or more of four languages: English, German, Spanish, and French.

21. AUTOMATIC TIME/DATE SEARCH

The Veritrac 9000 provides automatic search to any time/date on any transport from the central controller or remote controller. After selecting the search screen, the time/date desired is entered into the microprocessor. Upon command, the microprocessor controlled digital render searches the selected transport at up to 700 times normal speed. When the time/date is located the transport will stop with no-overshoot and begin playing.

When the system is searching a tape that was not continuously recorded but VOX controlled, the time/date entered could be invalid (not on tape). If the microprocessor finds this condition during search, the tape will stop at the nearest time preceding the command and display "search time not present" on the master controller screen.

22. AUDIO SEARCH

The Veritrac 9000 provides a method of automatically searching a selected channel for audio at 100 times normal speed. When this function is selected from the master controller, the tape will begin to move either forward or reverse at 100 times normal speed until audio is detected. The system will stop upon audio detection and begin playing that message. If the operator desires another message, then a touch to the designated soft key will cause the system to search through blank tape to the next message.

23. MANUAL VARIABLE SPEED SEARCH CONTROL

The Veritrac 9000 provides an alternative method of searching the tape. The master controller has a variable speed dual directional soft membrane strip that allows for manual searching. This control speeds the search from 0 to 400 times normal, both forward and reverse, at seven different speeds. When you remove your finger from the strip, the system automatically stops and begins playing.

24. AUTOMATIC RE-RECORD

The Veritrac 9000 offers another function that utilizes the search for audio feature. You can enter the auto record function from the master controller and if your system is equipped with the optional cassette re-record panel, command a cassette copy to be produced from the selected channel. Blank tape will be automatically skipped and only those portions containing audio will be played at recorded speed. This will condense the audio on the cassette and the skipping of blank tape at 100 times normal speed will greatly speed up the whole process.

25. RE-RECORD UNTIL

As part of the record process just described, you may also program into the master controller, the time and date you wish the auto re-record function to cease automatically.

26. DUAL CHANNEL RE-RECORD PANEL

You can equip your system with an in-built, cassette, two channel re-record unit. The conversation will be re-recorded on one channel, and a synthesized voice time will be recorded on the second channel. Thus, the cassette will have both the conversation and the time it was originally recorded provided to the listener when the tape is played. The time is stated every ten seconds.

27. PROGRAMMABLE START-STOP

For those applications that require recording only during business hours, the Veritrac 9000 can be programmed from the central controller to automatically start operating and cease operating at predetermined times on each day of the week.

28. AUTO RESTORE

For those applications where the interruption of a recording on an in-use transport is important for an immediate search and playback, the Veritrac 9000 provides the auto restore function. When this command is entered on the central controller, the tape will automatically search forward until the last recorded message is passed and stop on clean tape. The system will automatically return to the record mode and begin normal operation.

29. AUTOMATIC NOISE ELIMINATOR (ANE)

During playback of critical communications, the Veritrac 9000 recognizes that background noises that were recorded could cause less than desired clarity of playback. The ANE feature can be enabled through the central controller to filter out these noises and enhance the playback clarity dramatically.

30. TAPE REMAINING INDICATOR

The Series 9000 displays in hours, the amount of tape remaining on all transports on the central controller screen. This is especially valuable when tapes are used for more than one day.

31. AUTOMATIC TAPE LOAD DIAGNOSTICS

The Veritrac 9000 will automatically run a diagnostic sequence whenever a new tape is loaded on a transport module. This test checks for low frequency response on all channels, high frequency response on all channels, if back-up amplifiers are present they are also tested, time code and guard tone is checked as well. If the transport passes all tests, the "Deck OK" prompt will display on the central controller screen and the deck will be placed into the ready mode.

32. FULL FUNCTION REMOTE CRT CONTROL PANEL

The entire Veritrac 9000 system can be controlled remotely with this optional unit. The unique design allows for up to 4 remote controllers with one system and privacy is provided. One remote CRT controller can be used with multiple 9000 systems as well.

33. COMPATIBILITY

The Veritrac 9000 is tape-to-tape compatible with the Veritrac 5000 and will display the Veritrac 5000 time.

34. SERVICE DIAGNOSTIC ROUTINE

The Veritrac 9000 software contains a complete service routine that can identify any system failure to the board level and also verify on a continuous basis that every module within the system is operating at its published specifications.

35. PORTABLE REPRODUCER

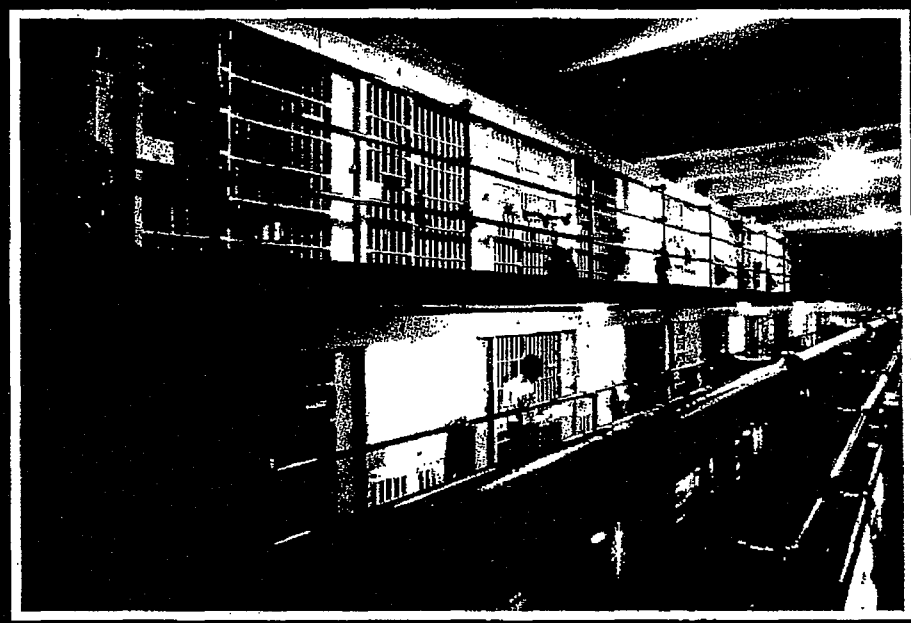
The optional Veritrac 9000 reproducer provides all of the playback features described above. The unit also contains a variable speed control and a variable auto-back space that make the system operate like a full function transcriber.

36. REDUNDANT SYSTEMS

For those applications that require 100% redundancy, the Veritrac 9000 can be configured with 100% back-up record amplifiers, 100% back-up transports and electronics, 100% back-up time code systems, and 100% back-up power supplies.

System 20

Specially designed for correctional facilities . . . from County Jails to State and Federal Prisons



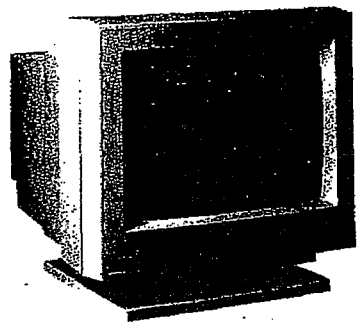
VAC

VALUE-ADDED COMMUNICATIONS

We bring commitment and communications together.

000534

Value-Added Communications— The Single Source Company That Places You In Total Control!



VAC provides complete validation services— quickly and efficiently.

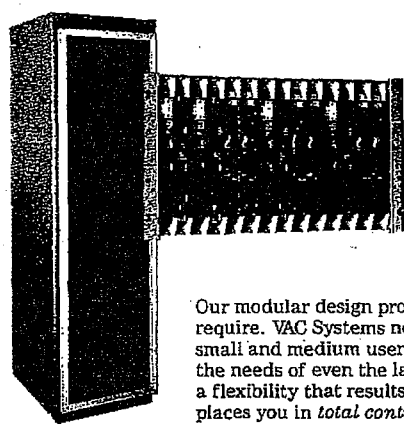
VAC offers a variety of products to meet the needs of any 0+ aggregator. Even more, you'll appreciate our *unequaled* resources and support services to handle any of your operator services requirements. You receive your money *on time, every time.* In addition, you may want to consider our *advanced payment* options.

VAC Brings It All Together

Now you can take full advantage of VAC's comprehensive approach to 0+ services. Included within this profit-producing package is a full array of validation services, polling, rating, reports and new product development. As a *single-source company*, you can depend on us to take care of every detail for you, *including* compliance with all operator services regulations.

Experienced VAC personnel provide full polling, rating, billing and validation services.

Our dedicated in-house hardware and software technicians respond to your needs promptly, utilizing specialized skills and advanced technology.



Our modular design provides the flexibility you require. VAC Systems not only service the needs of small and medium users, but can be expanded to meet the needs of even the largest customer applications— a flexibility that results in *maximum profits* and places you in *total control!*

System 20

Value-Added Communications developed System "20" to provide correctional authorities with what they've always needed: a flexible inmate phone system that keeps inmates in touch with relatives and friends, but discourages illicit calling activity. VAC understands the delicate balance between maintaining inmate morale with reliable phone service and providing correctional authorities with the ability to monitor, detect and investigate illegal behavior.

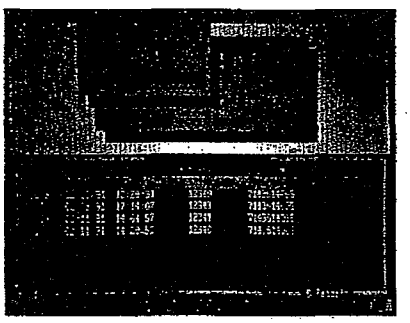
With these concepts in mind, VAC's engineers put together the most flexible inmate phone system available!

FEATURES	*BENEFITS*
• **Modular Design**	Regardless how large or small the facility is, System 20 can handle it. The system is modular, so it can be tailored to fit the size of any facility *economically.*
• **Fully Automated**	VAC System 20 is fully automated, eliminating the need for costly live operator call handling, operator abuse, traffic congestion, errors and fraud. System 20's auto-collect voice prompts handle calls quickly and efficiently.
• **Application-Specific Software**	No matter what type of monitoring and control requirements you may have, there is a System 20 software package to meet your needs.

ITAC

ITAC, short for Inmate Telecommunications Access Controller, is a PC-based software package designed to provide the correctional authorities with a user-friendly tool to investigate inmate calling activity as never before. It incorporates the call accounting features of *Telsort* and goes one step further:

- Each inmate is assigned a PIN number and given a limited dialing menu. This database of numbers can be created automatically or manually at the option of the correctional authority.
- Each call by an inmate is validated against their calling menu. This restricts inmates from calling numbers other than those already authorized. (No calls to the warden, witnesses, etc.)
- *ITAC* gives you the ability to designate numbers to trigger an audible alarm. (Lets authorities investigate suspected contacts on the outside.) Alternatively, numbers can simply be blocked . . . to one inmate or all inmates.
- Identifies numbers called by more than one inmate. This can pinpoint illicit activity.



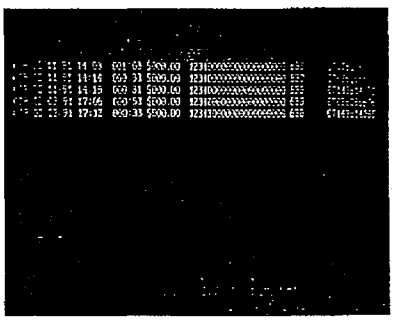
With its inherent flexibility and control, *ITAC* is a powerful tool for correctional authorities.

TELSORT

Telsort is a specialized call accounting software package that allows you to select from a broad array of reports:

—all calls to a specific number
—all calls at a specific time
—sort call records by inmate*, time of day, phone number, duration, cost, trunk, etc.

*Requires ITAC software

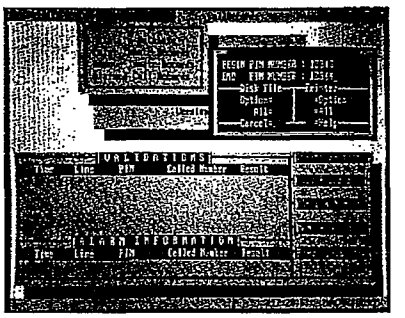


ADDITIONAL FEATURES

- Prevents chain dialing. Inmates must hang up before dialing a new call.
- Time-of-day automatic shut-off.
- Bilingual voice prompts available.

VAC is a single-source company for equipment, installation, maintenance, validation, billing, and all regulatory certification requirements.

System 20 is up and running in over 100 facilities across the country . . . from county jails to state prisons. Using reports generated by VAC's System 20, authorities in Pennsylvania were able to solve a ten-year-old mystery concerning the whereabouts of a murder victim. In Oklahoma, state authorities used System 20 call data to apprehend two felons coordinating illicit activity with inmates. The product works!

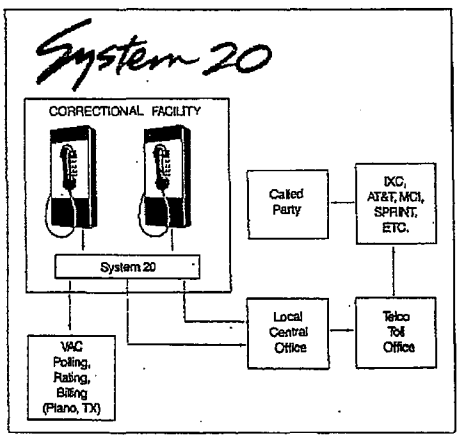


Our Company's *integrity* is reflected in an ongoing dedication to ethics in everything we do.

The essence of our *character* is inherent in a loyal, motivated family of VAC employees.

Our *reputation* is predicated upon a sincere concern for our VAC customers.

At Value-Added Communications, we bring *commitment* and *communications* together!



VAC
VALUE-ADDED COMMUNICATIONS

VALUE-ADDED COMMUNICATIONS

Corporate Offices
1901 S. Meyers Rd., Suite 530
Oakbrook Terrace, IL 60181
Telephone: 708-628-6606
Fax: 708-628-6687

Operations/Commercial Sales
820 Jupiter Rd., Suite 103
Plano, TX 75074
Telephone: 214-578-1160
Fax: 214-422-4073

Institutional Sales
940 Calle Negocio, Suite 270
San Clemente, CA 92672
Telephone: 714-361-4005
Fax: 714-361-5171

000537

USDOJ

TECHNICAL
Equipment
#42

Can provide brochures, warranties, information pertaining to equipment to be provided for inmate/pay phone services. Organize and label Technical, Equipment #42 for evaluation identification.

U.S. WEST RESPONSE:

Due to regulatory constraints U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

AT&T

TECHNICAL
Equipment
#45

Provide copy of written operational procedures to be posted at or near inmate phones on date of cut over and label Technical, Equipment #45.

AT&T PRIME RESPONSE:

AT&T has the good fortune of providing the DOC's current public telephone interLATA service. Cutover to a new commission plan will be implemented without any disruption or change of service, thereby eliminating the need for procedural posting. AT&T will coordinate a change in commission plans from the current AT&T Commission Agreement to the new commission plan/rate.

US West

GTE

TECHNICAL
Equipment
#45

Provide copy of written operational procedures to be posted at or near inmate phones on date of cut over and label technical Equipment #45.

GTENW RESPONSE:

LOCAL CALLS

(Within Area Code)
Dial "0" + Telephone Number

LONG DISTANCE CALLS

(Outside this Area Code)
Dial "0" + Area Code + Telephone Number

After you dial the number, an Operator will come on the line

LLAMADAS LOCALES

(Dentro de Esta Zona)
marque "0" + Numero de telefono

LLAMADAS DE LARGA DISTANCIA

(Afuera de Esta Zona)
Marque "0" + laZona + Numero de Telefono

Despues que marque el numero una Operadora vendra a la linea

PTY

TECHNICAL
Equipment
#45

Provide copy of written operational procedures to be posted at or near inmate phones on date of cut over and label technical Equipment #45.

PTI RESPONSE:

LOCAL CALLS

(Within Area Code)
Dial "0" + Telephone Number

LONG DISTANCE CALLS

(Inside & Outside this Area Code)
Dial "0" + Area Code + telephone Number

After you dial the number, an operator will come on the line

LLAMADAS LOCALES

(Dentro de Esta Zona)
Marque "0" + Numero de Telefono

LLAMADAS DE LARGA DISTANCIA

(Dentro & Afuera de Esta Zona)
Marque "0" + LaZona + Numbero de Telefono

Despues que marque el numero una Operadora Vendra a la linea

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45 West

TECHNICAL
Equipment
#45

Provide copy of written operational procedures to be posted at or near inmate phones on date of cut over and label Technical, Equipment #45.

U.S. WEST RESPONSE:

Due to regulatory constraints U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

GTE

TECHNICAL
Equipment
#49

Provide a description of maintenance organization capable of maintaining the installed equipment and software on separate sheet and label technical equipment #49.

GTENW RESPONSE:

GTENW has a trained team of 10 field technicians who specialize in installation, maintenance and repair of pay telephones and inmate instruments in the Everett Area. This team is based at 2312 West Casino Road, Everett, Washington.

Current GTENW technician training includes instruction on the installation, operation and maintenance of the inmate instrument, installation and maintenance of inside wire, and trouble detection and isolation procedures. With this contract, additional training will be provided to familiarize our personnel with the features and operations of the VAC System 20 and Dictaphone equipment to help them isolate probable causes of trouble.

Additional technical support will be available from VAC through a remote diagnostic center to isolate and correct

problems associated with the call accounting software and to identify specific hardware problems requiring corrective action. In the event of a major equipment failure in the VAC System 20, a VAC technician will be dispatched locally.

Dictaphone technicians will be available to repair and/or replace defective equipment within the requirements of the contract.

PTX

TECHNICAL
Equipment
#49

Provide a description of maintenance organization capable of maintaining the installed equipment and software on separate sheet and label Technical Equipment #49.

PTI RESPONSE:

PTI Communications has three trained teams of thirty-one Field Technicians who specialize in installation, maintenance and repair of pay telephones and inmate instruments in the Gig Harbor, Forks, Cheney, and Medical Lake area. The Gig Harbor team is based at 8102 Skansie Avenue, Gig Harbor, Washington. The Forks team is based at 135 First Avenue, Northeast, Forks, Washington. The Cheney team is based at 111 "A" Street, Cheney, Washington, and the Medical Lake team is based at 7124 South Graham Road, Medical Lake, Washington.

Current PTI technician training includes instruction on the installation, operation and maintenance of the inmate instrument, installation and maintenance of inside wire, and trouble detection and isolation procedures. With this contract, additional training will be

provided to familiarize our personnel with the features and operations of the VAC System 20 and Dictaphone equipment to help them isolate probable causes of trouble.

Additional technical support will be available from VAC through a remote diagnostic center to isolate and correct problems associated with the call accounting software and to identify specific hardware problems requiring corrective action. In the event of a major equipment failure in the VAC System 20, a VAC technician will be dispatched locally.

Dictaphone technicians will be available to repair and/or replace defective equipment within the requirement of the contract.

TECHNICAL
Equipment
#49

Provide a description of maintenance organization capable of maintaining the installed equipment and software on separate sheet and label Technical, Equipment #49.

U.S. WEST RESPONSE:

Due to regulatory constraints, U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

AT&T

TECHNICAL
Installation/Implementing Schedule
#51

Provide an implementation plan and installation schedule for all services, equipment being proposed. Separate sheet and label Technical #51.

AT&T PRIME RESPONSE:

Because AT&T is currently providing the interLATA services at the DOC, there would be no interruption of existing service or commissions. The additional locations provided for under this proposal would become effective on January 16, 1992 with the next current commission cycle.

GTE

TECHNICAL
Installation/Implemeting Schedule
#51

Provide an implementation plan and installation schedule for all services, equipment being proposed. Separate sheet and label technical #51.

GTENW RESPONSE:

IMPLEMENTATION SCHEDULE

Working Day 1 -		Contract Signing - notice to proceed.
Day 2 -		Order equipment - monitoring/recording.
Day 3 - 10		Site meetings - discuss equipment parameters and Prefield.
Day 11 -		Order System 20 Equipment/Phones/Lines.
Day 12 - 21		Install wiring at WSR.
Day 22 - 30		Wire TRCC; Install System 20 and Dictaphone Equipment.
Day 31 - 42		Install inmate phones, lines; cutover to System 20 at WSR and TRCC.
Day 43 - 48		Install inmate phones, lines; cutover to System 20 at Indian Ridge.

January, 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7 Contract Signing - Notice to Proceed.	8 Order Equipment/ Monitoring Recording	9 Site Meetings Discuss Equipment Paramenters/ Prefield	10	11
12	13 Site Meetings Discuss Equipment Parameters/ Prefield	14	15	16	17	18
19	20 Site Meetings Discuss Equipment Parameters/ Prefield	21 Order System 20 Equip. Phones/ Lines	22 Install Wiring at WSR.	23	24	25
26	27 Install Wiring at WSR.	28	29	30	31	

February, 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 Install Wiring at WSR.	4	5 Begin System 20 & Dicta-phone installation/ Wire TRCC	6	7	8
9	10 Begin System 20 & Dicta-phone installation/ Wire TRCC	11	12	13	14	15
16	17 Begin System 20 & Dicta-phone installation/ Wire TRCC	18 Install inmate phones/lines; cutover to System 20 at WSR & TRCC.	19	20	21	22
23	24 Install inmate phones/lines; cutover to System 20 at WSR & TRCC.	25	26	27	28	29

March, 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Install inmate phones/lines cutover to System 20 at WSR & TRCC.	3	4 Install inmate phones/lines; cutover to System 20 at Indian Ridge.	5	6	7
8	9 Install inmate phones/lines cutover to System 20 at Indian Ridge.	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

PTI

TECHNICAL
Installation/Implementing Schedule
#51

Provide an implementation plan and installation schedule for all services, equipment being proposed. Separate sheet and label Technical #51.

PTI RESPONSE:

IMPLEMENTATION SCHEDULE

Working Day	1	Contract signing - notice to proceed
	2	Order equipment -monitoring/recording
	3-10	Site meetings - discuss equipment parameters and Prefield.
	11	Order System 20 Equipment/Phones/Lines
	12-30	Wire CBCC, OCC, WCCW, PLCC, and EWPR: Install System 20 Dictaphone Equipment.
	31-45	Install inmate phones, lines; cutover to System 20 at CBCC, OCC, PLCC, EWOR, WCCW.

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January 1992

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	
	6	7	8	9	10	
		Contract Signing Notice to Proceed	Order Equipment Monitoring, Recording	Site Meetings Discuss Equipment Parameters Prefield		
	13	14	15	16	17	
			Site Meetings Discuss Equipment Parameters Prefield			
	20 M. L. King Day	21	22	23	24	
	Site Meetings Discuss Equipment Parameters Prefield	Order System 20 Equip. Phones/Lines	Install System 20 & Dictaphone Equipment CBCC, OCC, WCCW, PLOC, EWPR			
	27	28	29	30	31	
			Install System 20 & Dictaphone Equipment CBCC, OCC, WCCW, PLOC, EWPR			

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February 1992

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						Install System 20 & Dict CBCC, OCC, WCCW, PL
	3	4	5	6	7	
	10	11	12 Lincoln's B. Da	13	14	
	17 Presidents' Day	18	19	20	21	
	24	25	26	27	28	

Install System 20 & Dictaphone Equipment
CBCC, OCC, WCCW, PLOC, EWTR

Install System 20 & Dictaphone Equipment
CBCC, OCC, WCCW, PLOC, EWTR

Install System 20 & Dictaphone Equipment
CBCC, OCC, WCCW, PLOC, EWTR

Install Inmate Phones/Lines
Cutover to System 20 at CBCC,OCC,WCCW,PLCC,EWTR

Install Inmate Phones/Lines
Cutover to System 20 at CBCC,OCC,WCCW,PLCC,EWTR

Printed: Oct/15/91
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March 1992

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Install Inwats Phones/Lines

Cutover to System 20 at CBCC,OCC,WDCW,PLCC,EWFR

Install Inwats Phones/Lines

Cutover to System 20 at CBCC,OCC,WDCW,PLCC,EWFR

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US West

TECHNICAL
Installation/Implementing Schedule
#51

Provide an implementation plan and installation schedule for all services, equipment being proposed. Separate sheet and label Technical #51.

U.S. WEST RESPONSE:

Due to regulatory constraints, U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

MANAGEMENT B
#4

What clients has your company serviced within the area of inmate telephone services? List the clients, contact person, telephone numbers and addresses. A minimum of three contacts must be provided for references. Attach separate sheet and label Management B, #4.

AT&T PRIME RESPONSE:

Listed below are five references for whom AT&T provides inmate telephone services.

1. State of Washington, Department of Corrections
   410 West 5th
   Olympia, WA 98504

   284 Inmate Stations

   Contact Person: Sharon Shue
   206 753-6339

2. State of Pennsylvania (DOC)
   2221 Forster Street
   Harrisburg, PA 17105-1326

   625 Inmate Stations

   Contact Person: John Malcom, Jr.
   717 783-1965

3. State of Oregon (DOC)
   1225 Ferry Street SE
   Salem, OR 97310

   996 Stations
   109 Inmate Stations

   Contact Person: Tim Johnston
   503 373-7211

4. State of New Jersey (DOC)
CN216
Trenton, New Jersey 08625

100 Inmate Stations

Contact Person: Rich Vidulich
609 488-4487

5. State of Maryland DJSOTM
301 North Preston Street
Baltimore, MD 21210

650 Inmate Stations

Contact Person: Margaret Barrett
303 225-4254

GTE

MANAGEMENT B
#4

What clients has your company serviced within the area of inmate telephone services? List the clients, contact person, telephone numbers and addresses. A minimum of three contacts must be provided for references. Attach separate sheet and label Management B, #4.

GTENW RESPONSE:

1. State of California
   P.O. Box 942883
   Sacramento, California 94283-0001

   Contact Person: Sue Kilday, Manager of Operations
   916 323-2484

2. Benton County Jail
   5600-A West Canal Place, A101
   Kennewick, Washington 99336

   Contact Person: Susan Tanska, Director of Facilities
   509 783-3118

3. Snohomish County Jail
   Courthouse Complex
   Everett, Washington 98201

   Contact Person: Bill Harper, Director of Corrections
   206 388-3474

4. Pelican Bay Prison
   Post Office Box 7000
   Smith River, California 95567

   Contact Person: Mike Manning, Procurement Officer
   707 465-1000

5. Del Norte County Jail
   650 5th Street
   Crescent City, California 95531

   Contact Person: Sheriff Mike Ross
   707 464-9521

6. North Idaho Correctional Installation
   Hospital Drive North
   Orofino, Idaho 83544

   Contact Person: Jim Hope, Warden
   208 476-3655

7. Kootenai County Jail
   5500 Government Way
   Coeur d'Alene, Idaho 83814

   Contact Person: Lieutenant Glen Whipple
   208 664-1511

8. Clearwater County Jail
   150 Michigan Avenue
   Orofino, Idaho 83544

   Contact Person: Eugene Fish
   208 476-4521

9. Bonner County Jail
   215 South First
   Sandpoint, Idaho 83864

   Contact Person: Sergeant Chuck Day
   208 263-3136

10. Boundary County Jail
    1115 Kootenai
    Bonners Ferry, Idaho 83805

    Contact Person: Sergeant Harry Schuer
    208 267-3154

11. Pend Oreille County Jail
    231 South Garden Avenue
    Newport, Washington 99156

    Contact Person: Sergeant Mary Lou Layton
    509 447-3151

12. Coos County Jail
    250 North Baxter
    Coquille, Oregon 97423

    Contact Person: Lois Pierce
    Telecommunications Manager
    503 396-3121

13. North Bend Parole Violators Prison
1976 Union
North Bend, Oregon 97549

Contact Person: Tim Johnson
503 373-7211

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MANAGEMENT B
#4

What clients has your company serviced within the area of inmate telephone services? List the clients, contact person, telephone numbers and addresses. A minimum of three contacts must be provided for references. Attach separate sheet and label Management B, #4.

PTI RESPONSE:

1. Clallam Bay Corrections Center
   Charlie Creek Road
   HC 63, Box 5000
   Clallam Bay, Washington 98326-9775

   Contact Person: Rich Granum
   206-963-2000

2. Olympic Corrections Center
   HC 80, Box 2500
   Forks, Washington 98331

   Contact Person: Jerry Sullivan
   206-374-6181

3. Pine Lodge Correctional Center
   P.O. Box C
   Medical Lake, Washington 99022-0001

   Contact Person: Mike McGinnis
   Jim Fox
   509-299-4711

4. Grays Harbor County Sheriff/Jail
   P.O. Box 630
   Montesano, Washington 98563

   Contact Person: Sheriff Dennis Morrisette
   206-249-3711

5. Gig Harbor Police
   P.O. Box 145
   Gig Harbor, Washington, 98335

   Contact Person: Chief Dennis Richards
   206-851-2236

6. King County Police
33409 SE 43rd Street
Fall City, Washington 98024

Contact Person: Lt. Harry Hansen
206-888-4433

7. Washington Corrections Center for Women
P.O. Box 17
Gig Harbor, Washington 98335

Contact Person: Mr. Cutis Hoffman
206-851-9101

US West

MANAGEMENT B
#4

What clients has your company serviced within the area of inmate telephone services? List the clients, contact person, telephone numbers and addresses. A minimum of three contacts must be provided for references. Attach separate sheet and label Management B, #4.

U.S. WEST RESPONSE:

Due to regulatory constraints, U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

AT&T

MANAGEMENT B
#5

Please supply an organizational chart of your company to include the following information:

- principal officers of your company.
- key staff to be assigned or employed for inmate and pay telecommunications services.
- qualifications of key operations personnel.
- the authority of personnel involved in the performance of this potential contract.
- the relationship of this specific staff to other programs or functions in your company.

AT&T PRIME RESPONSE:

- principal officers of your company.

Robert E. Allen:	Chairman of the Board and Chief Executive Officer of American Telephone and Telegraph Company
Randall L. Tobias:	Vice Chairman of the Board of American Telephone and Telegraph Company: Chairman and Chief Executive Officer of AT&T Communications, Inc. and AT&T Information Systems, Inc.

- key staff to be assigned or employed for inmate and pay telecommunications services:

Patty Maitland:	**Account Executive** **510-224-4926**
Fritz Mayer:	Regional Sales Manager 510-224-5500
Sandy Whitlark:	Regional Operations Manager 510-224-5504
Robert Strachan:	Support Specialist 510-224-1327
Stan Kirschman:	Major Account Manager 206-786-5150
Steve Graham:	Systems Consultant 206-786-0546
Kathy Mitchell:	Account Executive 206-786-5159

- qualifications of Key Operations Personnel:

Brief Resume of Project Leader:	Nine years with Bell System/AT&T.
Patty Maitland -	Account Executive of AT&T Consumer Sales Division
1990 - Present	AT&T Account Executive Consumer Sales Division, Pleasanton, California
1989 - 1990	AT&T Account Executive Business Sales Division, San Francisco, California
1989 - 1990	AT&T Sales Representative Business Sales Division, Santa Clara, California
1979 - 1985	Pacific Bell/Pacific Telesis Staff Supervisor Network Switching and Special Services

- The authority of personnel involved in the performance of this potential contract:

Patty Maitland has worked in several industries, including state, county and city government accounts. She has successfully negotiated AT&T Public Telephone Commission Agreements in the correctional facility industry.

- Relationship of this specific staff to other program or function in your company.

Patty Maitland, Fritz Mayer, Sandy Whitlark and Robert Strachan are a part of the Consumer Sales Division. It is the responsibility of the Consumer Sales Division to provide the customer service

interface for Consumer Communication Services products and services. Consumer Communication Services is one of the five business units that comprise AT&T Communications, Inc. Stan Kirschman, Steve Graham and Kathy Mitchell provide the customer interface function relating to Business Communications Services. Business Communications Services is another of the five business units comprising AT&T Communications, Inc.

Unleash AT&T

This organization chart will frustrate those who seek understanding and comfort in the traditional hierarchical format.

Success in executing AT&T's strategy and meeting customers' needs on a global basis calls for new ways of working together that can't be drawn into an organization chart. Among them are customer-driven business unit teaming; opportunity-stimulated collaboration; and shared responsibility and accountability—for markets and geography.

Spending time trying to draw solid or dotted lines in such a changed and changing environment would be futile and wasted energy. The people of AT&T will be empowered by how well they work individually and together to serve customers—not by organization charts.

The AT&T Team

985000

ATE

MANAGEMENT
Experience of Proposer
#5

Please supply an organizational chart of your company to include the following information: Label management B.#5.

- principal officers of your company.
- key staff to be assigned or employed for inmate and pay telecommunications services.
- qualifications of key operations personnel.
- the authority of personnel involved in the performance of this potential contract.
- the relationship of this specific staff to other programs or functions in your company.

GTENW RESPONSE:

KEY STAFF ASSIGNED TO INMATE & PAY TELECOMMUNICATIONS SERVICES

GTENW has a trained team of 10 field technicians who specialize in installation, maintenance and repair of pay telephones and inmate instruments in the Everett area, who report to the Field Operations Supervisor. These personnel have between two and five years of experience in this particular market segment. They are based locally at 2312 West Casino Road, Everett, Washington.

One technician will be designated as the primary team member responsible for servicing the WSF, SOC, TRCC, and Honor Farm facilities in Monroe. Another team member will be assigned to the Indian Ridge facility in Arlington. Both people

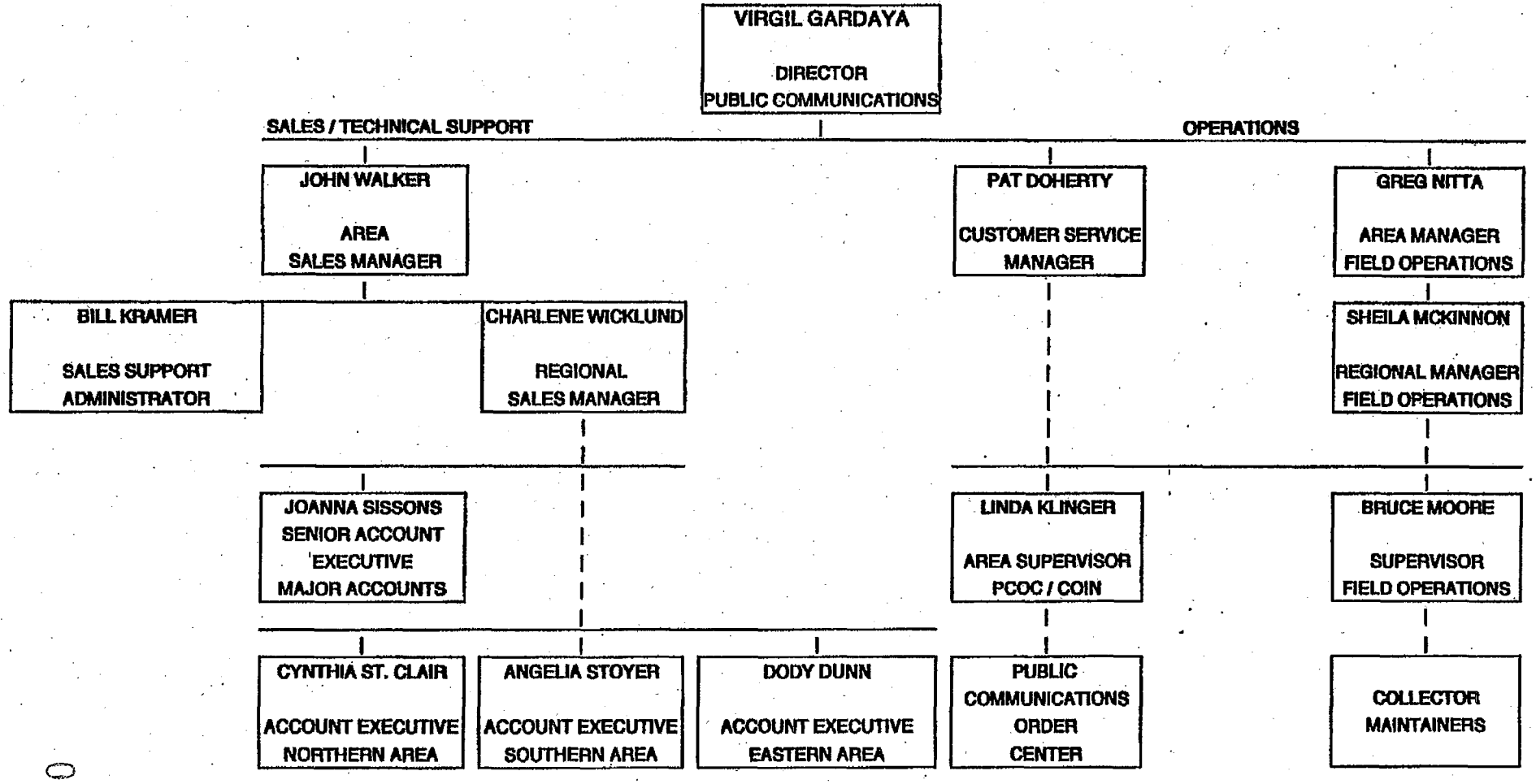
will have trained back-ups with appropriate security clearance who will be familiar with procedures at these facilities.

Current technician training includes instruction on the installation, operation and maintenance of the inmate instrument, installation and maintenance of inside wire, and trouble detection and isolation procedures. With this contract, additional training will be provided to familiarize our personnel with the features and operations of the VAC System 20 and Dictaphone equipment to help them isolate probable causes of trouble. These people will be used as back-up to the specialized maintenance personnel from Dictaphone and VAC, should they be needed to assist in any way.

Problems not able to be resolved by these technicians will be escalated to their supervisor, Bruce Moore, Field Operations Supervisor, who is also based in Everett. Mr. Moore has over 15 years of telephone experience with GTENW in both craft and management positions. At Mr. Moore's initiation, other resources

could be called in from GTENW, VAC, or Dictaphone, as appropriate.

GTE – NORTHWEST
PUBLIC COMMUNICATIONS



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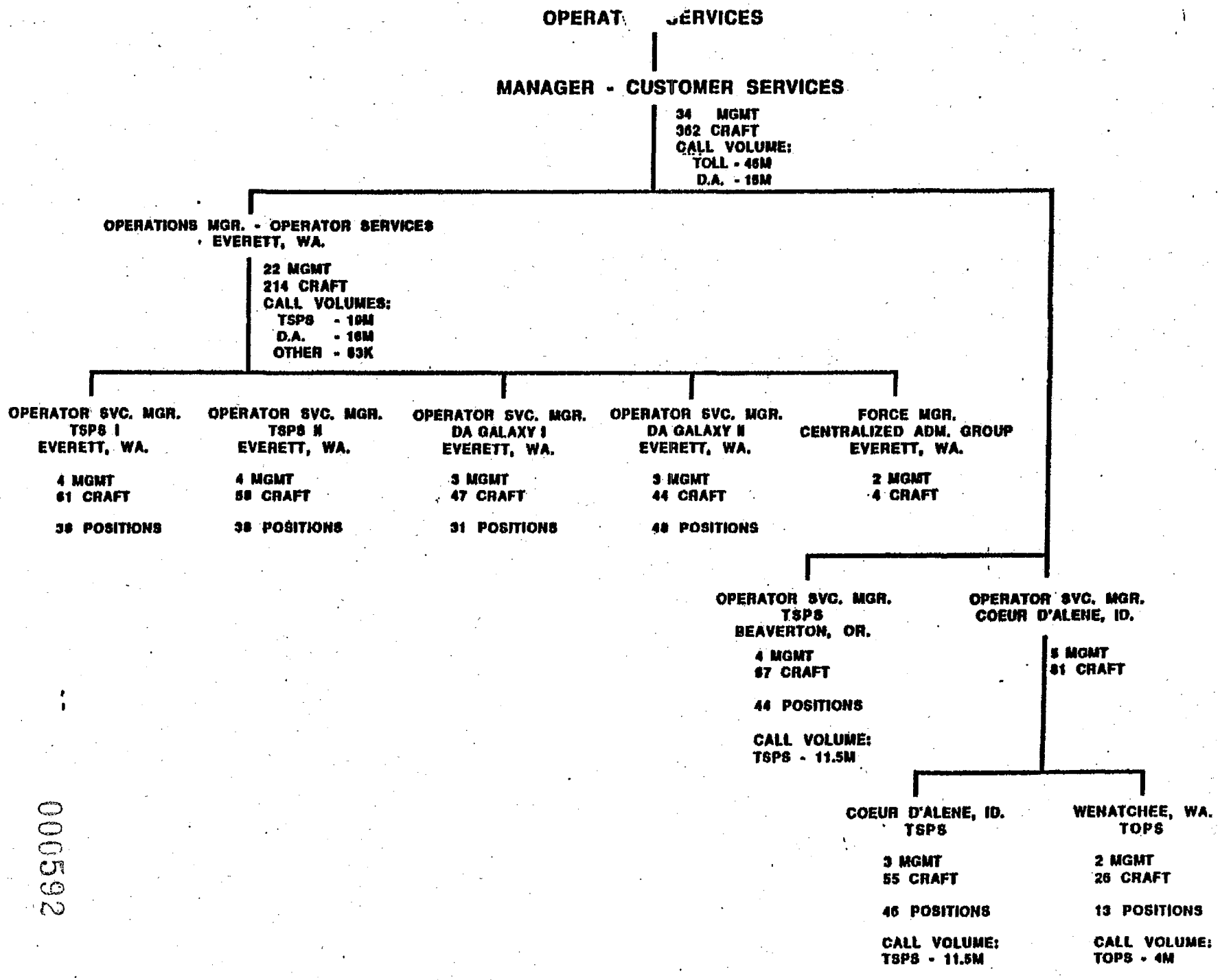

OPERAT SERVICES
MANAGER - CUSTOMER SERVICES
34 MGMT
362 CRAFT
CALL VOLUME:
TOLL - 46M
D.A. - 18M
OPERATIONS MGR. - OPERATOR SERVICES
EVERETT, WA.
22 MGMT
214 CRAFT
CALL VOLUMES:
TSPS - 19M
D.A. - 16M
OTHER - 63K
OPERATOR SVC. MGR.
TSPS I
EVERETT, WA.
4 MGMT
61 CRAFT
38 POSITIONS
OPERATOR SVC. MGR.
TSPS II
EVERETT, WA.
4 MGMT
58 CRAFT
38 POSITIONS
OPERATOR SVC. MGR.
DA GALAXY I
EVERETT, WA.
3 MGMT
47 CRAFT
31 POSITIONS
OPERATOR SVC. MGR.
DA GALAXY II
EVERETT, WA.
3 MGMT
44 CRAFT
48 POSITIONS
FORCE MGR.
CENTRALIZED ADM. GROUP
EVERETT, WA.
2 MGMT
4 CRAFT
OPERATOR SVC. MGR.
TSPS
BEAVERTON, OR.
4 MGMT
67 CRAFT
44 POSITIONS
CALL VOLUME:
TSPS - 11.5M
OPERATOR SVC. MGR.
COEUR D'ALENE, ID.
5 MGMT
81 CRAFT
COEUR D'ALENE, ID.
TSPS
3 MGMT
55 CRAFT
46 POSITIONS
CALL VOLUME:
TSPS - 11.5M
WENATCHEE, WA.
TOPS
2 MGMT
26 CRAFT
13 POSITIONS
CALL VOLUME:
TOPS - 4M

000592

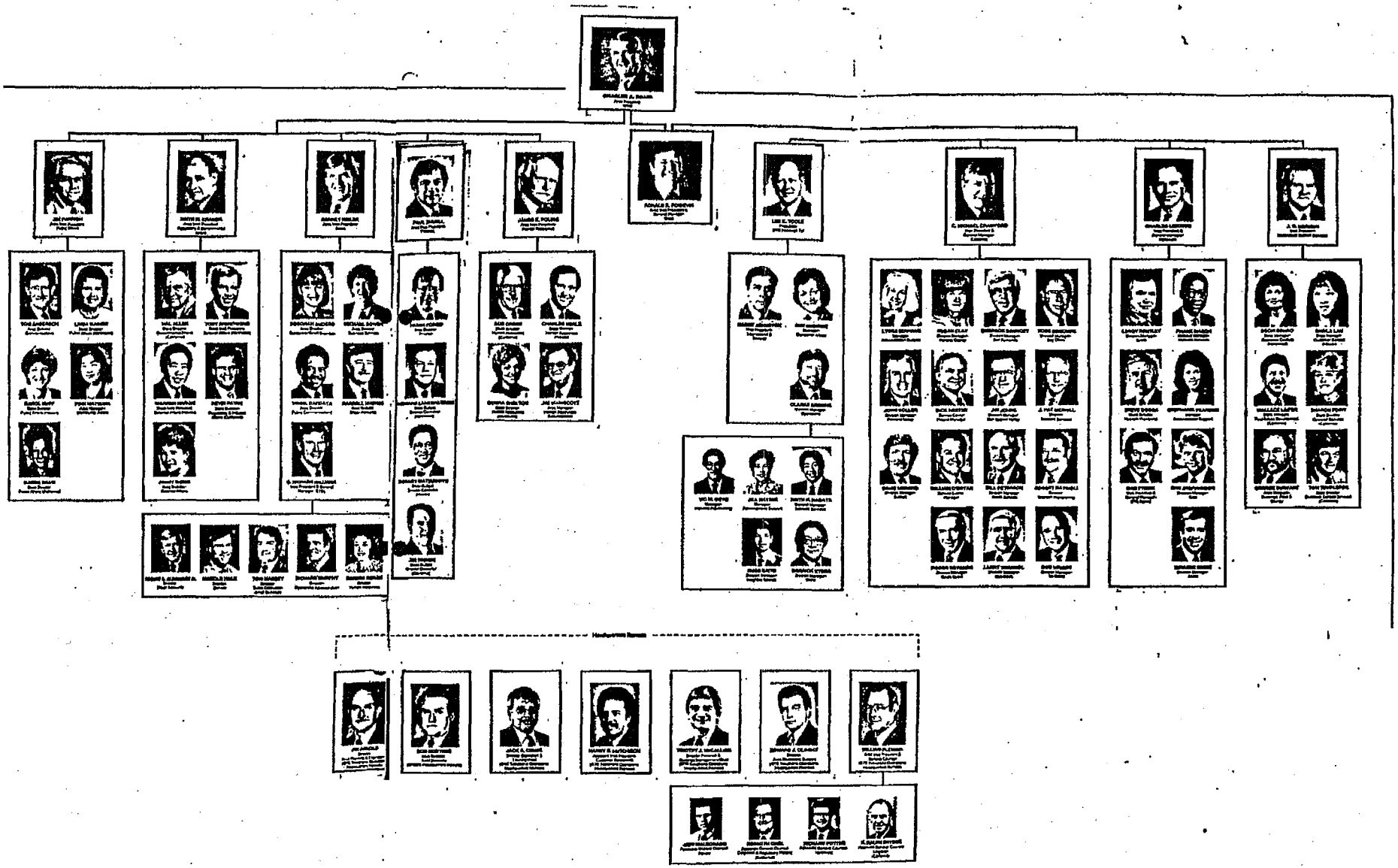
KEY STAFF ASSIGNED TO INMATE & PAY TELECOMMUNICATIONS SERVICES

GTENW has a trained team of 10 field technicians who specialize in installation, maintenance and repair of pay telephones and inmate instruments in the Everett area, who report to the Field Operations Supervisor. These personnel have between two and five years of experience in this particular market segment. They are based locally at 2312 West Casino Road, Everett, Washington.

One technician will be designated as the primary team member responsible for servicing the WSF, SOC, TRCC, and Honor Farm facilities in Monroe. Another team member will be assigned to the Indian Ridge facility in Arlington. Both people will have trained back-ups with appropriate security clearance who will be familiar with procedures at these facilities.

Current technician training includes instruction on the installation, operation and maintenance of the inmate instrument, installation and maintenance of inside wire, and trouble detection and isolation procedures. With this contract, additional training will be provided to familiarize our personnel with the features and operations of the VAC System 20 and Dictaphone equipment to help them isolate probable causes of trouble. These people will be used as back-up to the specialized maintenance personnel from Dictaphone and VAC, should they be needed to assist in anyway.

Problems not able to be resolved by these technicians will be escalated to their supervisor, Bruce Moore, Field Operations Supervisor, who is also based in Everett. Mr. Moore has over 15 years of telephone experience with GTE in both craft and management positions. At Mr. Moore's initiation, other resources could be called in from GTE, VAC, or Dictaphone, as appropriate.



GTE

GTE Telephone Operations West Area

EXECUTIVE MANAGEMENT ORGANIZATION

000594

PTI

MANAGEMENT
B #5

Please supply an organizational chart of your company to include the following information:

- principal officers of your company.
- key staff to be assigned or employed for inmate and pay telecommunications services.
- qualifications of key operations personnel.
- the authority of personnel involved in the performance of this potential contract.
- the relationship of this specific staff to other programs or functions in your company.

PTI RESPONSE:

PTI Communications has three trained teams of thirty-one Installation and Repair and Special App Technicians who specialize in installation, maintenance and repair of pay telephones and inmate instruments in the PTI Communications' Washington serving area. There are sixteen members on the Gig Harbor Team, four in the Forks team, and eleven on the Cheney and Medical Lake team. These teams will serve the inmate facilities located in their respective serving areas.

The craftsmen on each team report to an Installation and Repair Supervisor and a Special Apps Supervisor (see attached organization charts). These personnel have between five and twenty-five years experience in this particular market

segment. The Gig Harbor team is based at 8102 Skansie Avenue, Gig Harbor, Washington. The Forks team is based at 135 1st Avenue, N.E., Forks, Washington. The Cheney and Medical Lake team is based at 111 "A" Street, Cheney, Washington and 7124 South Graham Road, Medical Lake, Washington.

One technician from each team will be designated as the primary team member responsible for servicing the inmate facilities located in his area. Two other team members will be assigned to provide the same service in case of vacations, illness, etc. All team members will have trained back-ups with appropriate security clearance and will be familiar with procedures at their respective inmate facility.

Current employee training includes instruction on the installation, operation and maintenance of the inmate instrument, installation and maintenance of inside wire, and trouble detection and isolation procedures. With this contract, additional training will be provided to familiarize our personnel with the

features and operations of the VAC System 20 and Dictaphone equipment to help them isolate probable causes of trouble. These technicians will be used as backup to the specialized maintenance personnel from VAC Systems and Dictaphone should they be needed to assist in any way.

Problems not able to be resolved by these employees will be escalated to their respective Supervisor(s). For the Gig Harbor team, Mr. Dan Roso is the Special App Supervisor and Mr. Ed Bryson is the I&R Supervisor. Mr. Roso has over fifteen years experience in both craft and management positions and Mr. Bryson has over sixteen years experience. Mr. Roso can be called directly at 206-851-1320 and Mr. Bryson at 206-851-1321.

For the Forks team, Mr. Lonnie Archibald is the I&R Supervisor. He has over twenty-one years experience in both craft and management positions. Mr. Archibald can be called directly at 206-374-2310.

For the Cheney and Medical Lake team, Mr. Bill Trujillo is the Special App Supervisor and Mr. Jim Johnson is the I&R

Supervisor. Mr. Trujillo has over seventeen years experience in both craft and management positions, and Mr. Johnson has over thirty years experience. Mr. Trujillo can be reached directly at 509-235-3121 and Mr. Johnson at 509-235-3172.

At the Supervisors initiation, other resources may be called in from PTI Communications, VAC or Dictaphone, as required.

ORGANIZATION CHART

Gig Harbor Team (W C C W)

***JON ERICKSON**
Executive Vice President/General Manager – Western Region

****CONNIE MORRIS**
Vice President

KEN HOLT
General Plant Superintendent

RAY WEBB
Service Superintendent

ED BRYSON
I & R Supervisor

C. Hesse
I & R Technician

G. Barnes
I & R Technician

R. Maser
I & R Technician

D. Lehman
I & R Technician

R. Dekeyser
I & R Technician

F. Sisto
I & R Technician

B. Whipple
I & R Technician

D. Gipson
I & R Technician

L. Severtson
I & R Technician

R. Hand
I & R Technician

D. Hansen
I & R Technician

*Effective September 16, 1991, Jon Erickson asumed responsibilities as Executive Vice President/General Manager

**On January 1, 1992, Connie Morris will retire and Jon Erickson will be assuming these responsibilities

ORGANIZATION CHART

Gig Harbor Team (W C C W)

***JON ERICKSON**
Executive Vice President/General Manager – Western Region

****CONNIE MORRIS**
Vice President

KEN HOLT
General Plant Superintendent

RAY WEBB
Service Superintendent

DAN ROSO
Special APP Supervisor

C. DeCrow
Special APP Technician

C. Elliott
Special APP Technician

D. Millet
Special APP Technician

R. St Ours
Special APP Technician

D. Burlingame
Special APP Technician

ORGANIZATION CHART

Gig Harbor Team (W C C W)

***JON ERICKSON**
Executive Vice President/General Manager -- Western Region

****CONNIE MORRIS**
Vice President

DON DENNIS
Customer Service Manager

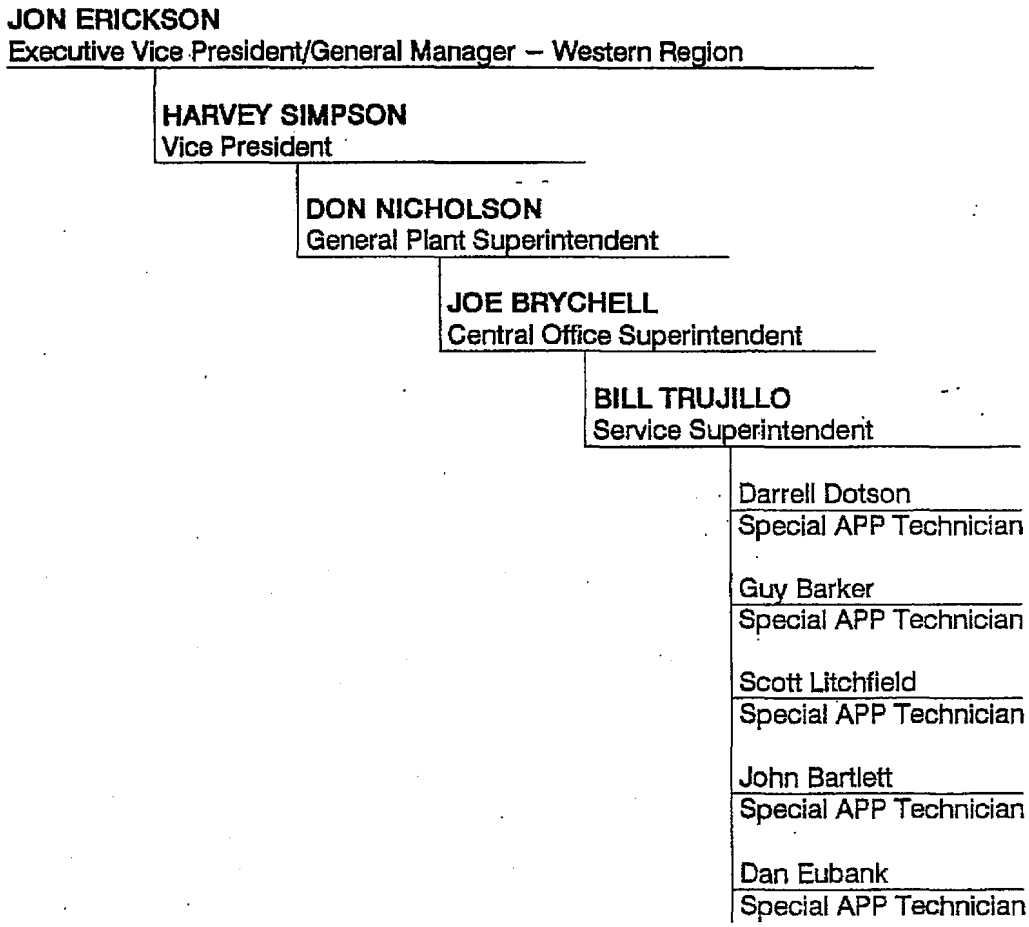
- DeNae Stafne — Marketing Supervisor
- Mary Jo Ward — Service Center Supervisor
- Darlene Holliday — Administrator Customer Services
- Dori Creasia — Commercial Supervisor
- Leon Gandy — Commercial Sueprvisor
- Jean Stuart — Commercial Supervisor
- Audrey Paulsen — Commercial Supervisor
- Service Representatives (26)

*Effective September 16, 1991, Jon Erickson asumed responsibilities as Executive Vice President/General Manager

**On January 1, 1992, Connie Morris will retire and Jon Erickson will be assuming these responsibilities

ORGANIZATION CHART

Cheney, Medical Lake Team (PLCC, EWPR)



ORGANIZATION CHART

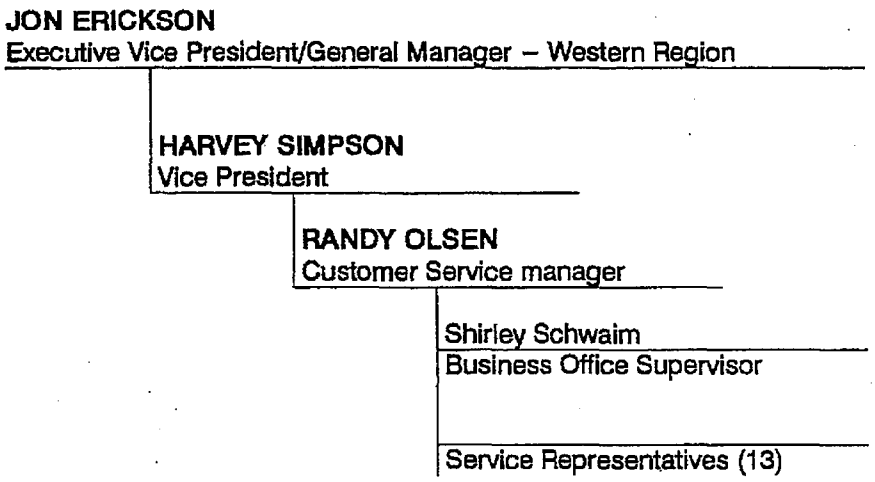
Cheney, Medical Lake Team (PLCC, EWPR)

JON ERICKSON
Executive Vice President/General Manager – Western Region

- **HARVEY SIMPSON**
  Vice President
  - **DON NICHOLSON**
    General Plant Superintendent
    - **JIM JOHNSON**
      Area Plant Supervisor
      - Jim Helydt
        I & R Technician
      - Steve Cada
        I & R Technician
      - Jim Olsen
        I & R Technician
      - Steve Kjelland
        I & R Technician
      - Ken Mathis
        I & R Technician
      - Bev Uskoski
        I & R Technician

ORGANIZATION CHART

Cheney, Medical Lake Team (PLCC, EWPR)



ORGANIZATION CHART

Forks Team (CBCC, OCC)

***JON ERICKSON**
Executive Vice President/General Manager – Western Region

****CONNIE MORRIS**
Vice President

KEN HOLT
General Plant Superintendent

JOHN FRYLING
Area Plant Superintendent

LONNIE ARCHIBALD
I & R Supervisor

Mike McConnell
I & R Supervisor

Jeff Wittenborn
I & R Supervisor

Randi Davis
I & R Supervisor

Sherman Penick
I & R Supervisor

*Effective September 16, 1991, Jon Erickson asumed responsibilities as Executive Vice President/General Manager

**On January 1, 1992, Connie Morris will retire and Jon Erickson will be assuming these responsibilities

USWest

MANAGEMENT B
#5

Please supply an organization chart of your company to include the following information:

- principal officers of your company.
- key staff to be assigned or employed for inmate and pay telecommunications services.
- qualification of key operations personnel.
- the authority of personnel involved in the performance of this potential contract.
- the relationship of this specific staff to other programs or functions in your company.

U.S. WEST RESPONSE:

Due to regulatory constraints, U.S. West Communications must submit a separate response to this RFP. All portions of the RFP which require information on the provision of intraLATA phone service are available in our proposal submitted under separate cover.

ptよ

000609

MANAGEMENT C
#1

Will your company assign live operators to the institutions? (If exceptions, please explain on a separate sheet of paper and label Management C, #1.)

PTI RESPONSE:

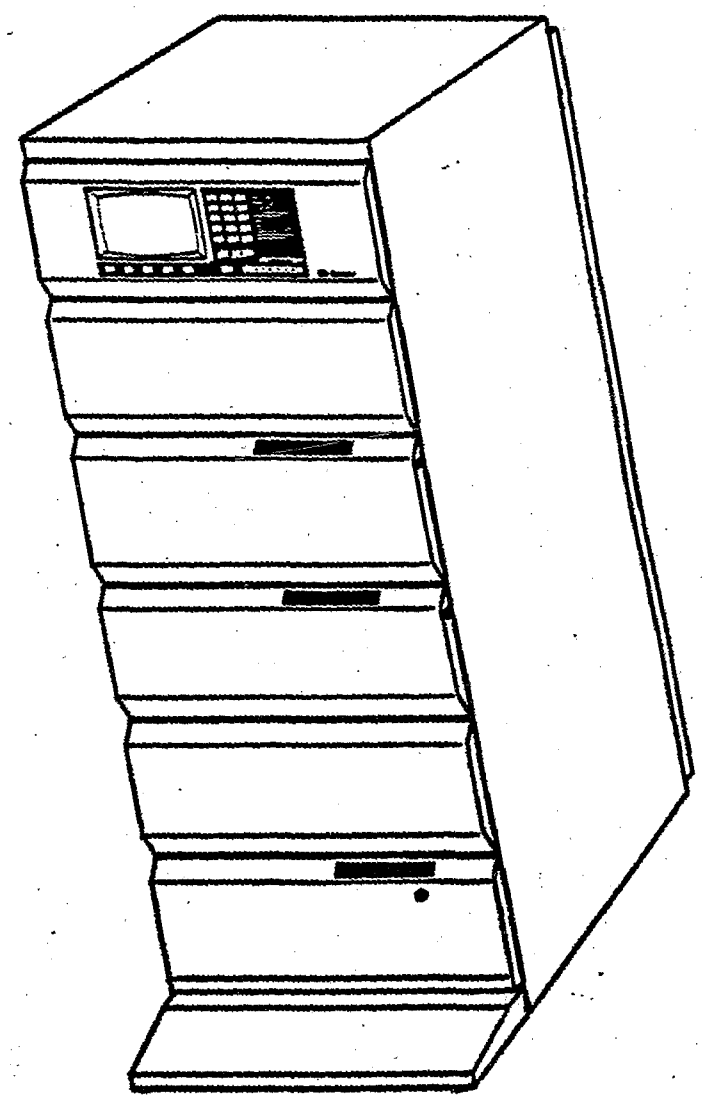
The VAC System 20 is an on-premise automated operator and does not require live operators.

Appendix C

Dictaphone
A Pitney Bowes Company

Veritrac Series 9000

Voice Communications Recording System



000612

L-1150

SPECIFICATIONS

MULTI-CHANNEL COMMUNICATIONS RECORDING SYSTEM

1.00 GENERAL

This specification covers logging tape recorder/reproducer systems designed to provide recording of 4 to 240 channels plus the time/date signal multiplexed on one channel with audio. The equipment furnished under this specification shall be designed for continuous duty operation, i.e. 24 hours per day, 365 days per year.

	Comply	Exception
1.01 All equipment supplied under this specification shall be completely operational when installed. After the equipment has been accepted and placed in service, the vendor shall guarantee it for a period of one year and will replace, free of charge, any parts thereof, which become broken or defective, except by reason of accident, misuse, or any casualty, during such period.		
1.02 The vendor will make all necessary adjustments to this system, not required by reason of accident, misuse, or any casualty, at the vendor's expense for a period of 90 days from date of installation.		
1.03 A first years maintenance agreement shall be provided. The vendor guarantees to accept annual maintenance agreements for at least a 5 year period without additional charges for overhauls.		
1.04 Service technicians directly employed by the equipment manufacturer must be available to respond within one working day in the event service is required. Describe local service organization along with telephone number and address on a separate sheet. Certificates of training courses completed on the equipment proposed by the responsible technician shall be included with the bid response.		
1.05 The vendor shall guarantee parts support for all items under this specification for a period of not less than five (5) years.		
1.06 This successful bidder shall supply a comprehensive technical manual, complete with all schematic and wiring diagrams, printed circuit board drawings, and parts listing. The successful bidder shall also provide an easy to read comprehensive operation instruction book as well.		
1.07 The vendor shall be responsible for the installation of all equipment covered by these specifications.		
1.08 All equipment in this specification shall be delivered no later than sixty (60) days after receipt of order. F.O.B. point shall be destination.		

000613

	Comply	Exception
1.09 The vendor shall provide on-site training and instruction for all operators, covering all equipment supplied under this specification. This training is to be performed by direct employees of the equipment manufacturer.		
1.10 The recorder/reproducer shall be agency approved by the following agencies: UL, CSA, DOC, and FCC part 15 and 68. The machine will have the appropriate markings on the label.		
1.11 All vendors responding to this specification must check in the appropriate box provided if they fully comply or not. If the do not comply box is marked a full explanation of the non-compliance must be included on a separate page. Failure to complete this requirement is cause for bid rejection.		
1.12 All vendors responding to this specification must supply a list of at least three local references using the system being quoted.		
1.13 All vendors responding to this specification shall include an audited financial statement. If a vendor is proposing a system that is not manufactured by them, then an audited financial statement of the manufacturer must be included as well. Failure to complete this requirement is cause for bid rejection.		
1.14 All equipment in this specification shall have incorporated the necessary modifications to allow installation to meet seismic bracing codes if required.		
2.00 CENTRAL CONTROL CRT MODULE		
2.01 A master control module shall be provided that can fully control up to four transport modules. This master controller shall contain a 9" monochrome CRT and incorporate a series of easy to read screens. The controller shall have a membrane switch containing five soft keys, a dedicated "previous screen" key, numeric key pad and a manual variable speed search strip associated with it.		
2.02 This central control CRT shall also contain a volume control, speaker, headset and cassette jack and be an integral part of the system design. Any OEM'ed PC equipment is unacceptable.		
2.03 The playback amplifier in the control module shall provide 5 watts of audio at the speaker and headset jack with a fixed –6 dBm at the cassette record jack.		
2.04 The central control CRT shall contain a microprocessor that will act as a system controller and will provide all control and monitoring for up to four transports.		
2.05 The central control CRT shall contain a master clock that synchronizes all of the individual transport clocks and will display the time/date information from any transport on the CRT screen through a prompted series of key strokes.		

000614

	Comply	Exception
2.06 The central control CRT shall display a playback screen with the total number of channels indicated individually. Any one, or all up to four transports may be played back through the controller. Any one, any combination or all channels may be selected through the numeric key pad for simultaneous playback through the speaker, headphone jack or cassette record jack. Channel selections will clearly show on the CRT screen in reverse video. In addition, an automatic noise eliminator circuit can be enabled during playback to filter out background noise and enhance the playback clarity.		
2.07 The central control CRT shall provide a channel audio activity monitor. This monitor will provide visual indication of active audio recording or active playback audio by channel. This will be shown in highlighted video on the screen for each individual channel.		
2.08 The central control CRT shall provide the ability to automatically search any previously recorded tapes on any of up to four transports. The auto search feature is initiated through a series of CRT prompted inputs. The date/time desired is displayed on the CRT screen and auto search initiated. The transport, under the command of the central controller will search at a high speed to locate the desired time/date and stop with no overshoot and begin playing.		
.09 The time/date information displayed on the CRT during the auto search function shall be the real time off tape. Any computer generated simulated times shall not be acceptable.		
2.10 The central control CRT initiated auto search function shall be carried out at fast speeds of up to 700 to 1 allowing the acquisition of any time/date address in less than 140 seconds.		
2.11 The central control CRT shall provide the capability to manually search any of up to four transports. This manual search will allow full variable (from 0 to 400 times normal record speed) speed control either forward or reverse from a soft membrane strip. This strip will activate when touched with a fingertip and cause the transport to move in concert with the finger movements. When the control is released, the transport will stop and resume playback automatically.		
2.12 The central control CRT shall provide an audio search mode that allows search for audio on any selected channel on any of up to four transports. In this mode the tape will move automatically at 100 times recorded speed over blank tape until audio is detected. The transport will then go into play and remain in play until asked to search again by touching the soft key or approximately 10 seconds of silence are encountered. ANY SEARCH SPEED BELOW 40 TIMES NORMAL PLAY SPEED IS NOT CONSIDERED MEANINGFUL. PLEASE CERTIFY YOUR SEARCH SPEED ON AN ATTACHED PAGE.		

	Comply	Exception
2.13 The central control CRT master time clock shall keep correct time from the internal UPS battery during an external power failure for a minimum of 24 hours. Upon restoration of external power master time shall be generated and the individual clocks in each transport will be set with the master clock time/date.		
2.14 The central control CRT shall contain the capability to have a 3 digit machine ID number programmed into the system. This 3 digit number will be recorded on each tape along with the time/date information and display on the CRT screen when a tape is played.		
2.15 The central control CRT must allow the time of day when recording is to be transferred to the next deck to be programmed into the system. This transfer must occur automatically, everyday, controlled by the central controller and not rely on any mechanical sensors or clocks. The controller shall also provide an automatic transfer when approximately 2 hours of tape is remaining as well.		
2.16 Working in conjunction with the search for audio function, the central control CRT shall provide the ability to auto rerecord. This feature will facilitate the automatic rerecording of one or more channels on a single channel of an external tape recorder. It must provide the rerecord tape recorder with a start/stop signal as well. This function shall eliminate gaps automatically without operation attendance or manual operation.		
2.17 The central control CRT shall have the ability to auto-restore on any of up to four transports to a clean tape position just beyond the last recorded message on the tape and automatically go into the ready to record mode.		
2.18 The central control CRT shall be capable of being programmed to provide automatic start up and automatic shut down of the entire system at preset times on preset days.		
2.19 The central control CRT shall offer complete system security and allow only operations with the right level clearance to access specific functions. This will be accomplished by multiple levels of access by programmed passwords.		
2.20 The central control CRT shall display visual alarms and sound audible alarms when any system malfunction is detected. These visual alarms will appear on the CRT and indicate where the failure occurred. These prompts are "AMP FAILURE", "SAFE SCAN FAILURE", "POWER SUPPLY FAILURE", "LOW FREQUENCY FAILURE", "HIGH FREQUENCY FAILURE", etc. The audible alarm will sound in two distinct ways; one indicating minor failure and one indicating major failure.		
2.21 The master time clock in the central control shall accept time synchronization signals from a variety of external sources including IRIGE. The master clock shall also provide a time sync signal to an external time allowing it to become the master for an entire system.		

	Comply	Exception
2.22 The central control CRT shall contain complete service diagnostic routine to allow a service technician to automatically trouble shoot a system and locate faults to the board level.		
2.23 The diagnostics routine shall contain a user mode that allows auto tape–load diagnostics to the programmed. This will occur automatically each time a new reel is loaded on a transport. This will verify recording, time code, high & low frequency response and safe scan operation; then switch the transport into "ready" to record mode and display "PASSED" or "FAILED" on the CRT screen.		
2.24 The amount of tape remaining shall be displayed for each transport module on the CRT screen in hours and minutes.		
2.25 The central control CRT shall allow the selection of an "over record" protection mode. The system while in this mode shall not allow an operator to place a deck into record when previous recording is present on the tape loaded for use.		
2.26 The central CRT Controller shall allow the language selection of either English, German, Spanish, or French to be displayed.		
2.27 The central CRT controller shall allow alerts to be cleared without removing the deck from the record mode.		
2.28 The central CRT controller shall allow for the pre–programming of the transfer to and from daylight savings time automatically.		
2.29 The central CRT controller shall provide in addition to 3 levels of password security, the ability to restrict access to certain decks within a system as well.		
2.30 The central CRT controller shall display which deck has been selected as the archive or primary deck.		
3.00 ELECTRONICS/AUDIO		
3.01 All electronic circuits shall be of modular construction and arranged for quick replacement by using plug in cards. All plug in cards shall be accessible from the front of the cabinet.		
3.02 All recorder inputs should be 60k OHMS, balanced bridging and transformer isolated. To facilitate the balancing of all input levels, a variable level control shall be associated with each channel to permit operation with audio line levels between –30 dBm and +10 dBm. Such controls shall be easily accessible.		
.03 The input level shall be jumper selectable at a preselected range of –10,0, +10 or +20 dBm.		

Comply	Exception

3.04 The universal audio inputs provided shall be jumper selectable for either current sensing telephone coupler operation, voltage sensing telephone coupler operation, VOX operation, external start and be FCC approved for direct connection to the telephone system.

3.05 Record amplifiers shall be furnished providing AGC operation with a range of 40 dB minimum and attack time of less than 17 ms. Recovery time shall be 200 ms typical for a –20 dB step change. The compression shall be 3 dB maximum variation in record level for a 40 dB change in input level. These plug in cards shall be mounted in an area with adequate space for the requirements of up to 120 channels per module with a maximum of 2 modules providing space for 240 channels.

3.06 Playback preamplifiers shall be mounted on plug in circuit cards with adequate space for the requirements of up to 60 channels per transport module. Playback preamplifiers shall be physically located close to the playback heads to allow for the best possible signal–to–noise performance.

*3.07 Signal–to–noise ratio shall be a minimum of –36 dB at standard record level or –42 dB at peak record level. The signal–to–noise ratio shall improve to –46 dB when the ANE circuit is enabled.

*3.08 Cross talk between channels shall be a minimum of –34 dB below recorded signal at standard record level or –42 dB when measured to peak record level.

*3.09 Wow and flutter shall be a maximum of 0.5% weighted peak, at tape speed of 15/32 inches per second. Within the head bridge area, free tape span measurements shall not exceed two inches.

*3.10 Limited only by tape characteristics, distortion shall be 3.0% Third Harmonic Distortion or less at standard record level at 500 Hz. Measurement to total harmonic distortion is unacceptable.

*3.11 At a tape speed of 15/32 in. per second, overall frequency response in both record and play mode shall cover a range of 300 –3000 Hz plus or minus 3 dB.

3.12 The depth of erasure shall be equal to the signal–to–noise ratio.

3.13 The bias frequency shall be 42kHz nominal.

4.00 TAPE TRANSPORT MODULES

4.01 Each tape transport mechanism shall be designed to slide out of the cabinet in its own drawer for ease of access to all components.

4.02 Each transport shall be capable of recording from 4 to 60 channels.

"Dictatape" or approved equal must be used.

000618

Comply	Exception

4.03 When two or more transports are provided, they shall be identical and inter-changeable. Each transport shall function as a standby for the other in the event of tape run-out, tape breakage or any other failure leading to the interruption of the recording function. The transfer from one transport to another shall be automatic, with manual override. A visual and audible alarm shall be provided to indicate such failure and/or transfer.

4.04 Each transport shall be designed for "straight line" tape threading.

4.05 For economical tape usage, each transport shall utilize such head design as to allow the recording and playback within the requirements of the "Electronics" portion of this specification, up to 8 channels on 1/4 – inch tape, up to 20 channels on 1/2 –inch or 1 – inch tape and up to 60 channels on 1 – inch tape.

4.06 Head assemblies shall be replaceable, without making azimuth or zenith adjustments. Head plug-in connectors shall be arranged such that heads cannot be disconnected. The heads, stationary tape guides and corning guides shall all be mounted on one precision milled bridge plate that absolutely precludes any tape mishandling due to transport warping.

4.07 In two or more transport arrangements, it shall be possible for the tape on any transport to be rewound or played back (when standby operation is not required) without danger of erasing or affecting the operation of another transport in any way.

4.08 It shall be possible for two or more transports in a given system to be capable of simultaneous recording, without the need for modifications, additional amplifiers, power supplies, etc.

4.09 Each transport shall provide at least 25 hours of continuous recording, using 3600 feet of 1.0 mil base tape, operating at a speed of 15/32 inches per second.

4.10 Each transport shall be of a 3-motor design with the tape drive system incorporating a brushless DC-Servo speed controlled capstan motor. The drive system shall be of dual differential capstan or closed loop design. Capstan pressure rollers shall turn on precision ball bearings and shall be constructed of polyurethane to insure constant tape drive without degradation due to hardening, wear, or changes due to contact with any type of head cleaning solvent. The take up motors shall be brushless DC, torque or speed controlled.

4.11 In fast forward and rewind modes, the oxide side of the tape shall come in contact with the tape guides and the tape lifters only. These tape guides shall be of such design as to eliminate lateral tape strain or side pressure in the head area due to variations in the reel packing geometry.

"Dictatape" or approved equal must be used.

000619

	Comply	Exception
4.12 Each transport should incorporate a double solenoid type of braking system to ensure smooth and coordinated braking of both reels. Braking time shall be adjustable. Average braking time shall be approximately 4 seconds, with a maximum of 6 seconds from maximum fast forward or rewind speed. The braking shall automatically engage upon external power failure.		
4.13 The braking system shall incorporate a "tape in motion" optical sensing device which shall prohibit engagement of the transport into playback mode until braking is absolutely complete, even though a playback command has been entered by the operator. This device shall completely eliminate the possibility of tape spillage or breakage under such operational conditions. This system should also monitor spindle rotation on both the tape up and supply reels to detect any tape break, spill or stall.		
4.14 The following manual control buttons in addition to the central Control CRT switches shall be provided for each transport: READY, RECORD, STOP, PLAY, FAST FORWARD, REWIND. Each shall be of non–locking design. Control circuitry shall be provided with memory logic to allow the operator to rapidly enter two control commands without waiting for the transport to "catch up" with the first command. (Example: while in REWIND mode, sequentially operate STOP and PLAY commands.)		
.15 It shall be unnecessary to use the STOP button as an intermediate control command.		
4.16 To enter RECORD mode, the transport must first be in the READY mode.		
4.17 The system shall provide ease of "jogging" operation by first depressing the PLAY button. The FAST FORWARD and REWIND buttons shall become momentary controls after play has been entered.		
4.18 In order to ELIMINATE EXCESSIVE HEAD AND TAPE WEAR, under all FAST FORWARD and REWIND conditions, the tape shall be totally free of any mechanical contact with the heads unless the automatic or manual search function has been entered at the central control CRT.		
4.19 A full track erase head shall be provided with each transport, assuring "clean" tapes prior to recording.		
4.20 Each tape transport shall be capable of accepting 10 1/2, N.A.B. reels without auxiliary hub adapters being required.		
21 One reel of recording tape and one tape–up reel shall be provided with each transport.		

000620

	Comply	Exception
4.22 The following LED indicators shall be provided on each transport in addition to the indicators on the central CRT control; READY activated by depressing READY button (allows transport to receive transfer from another transport upon failure) and RECORD provides visual indication of RECORD Mode. Three other LED's, a moving-bar LED and two arrow LED's shall be located on the front of the transport drawer to indicate tape motion and direction.		
4.23 Each tape transport should incorporate a memory feature which shall return the transport to the previously selected mode following a total loss of power. (i.e. return to RECORD mode if in RECORD mode prior to the expiration of the UPS battery.)		
4.24 Multiple transport systems shall perform an automatic transfer of the transports in RECORD mode on a daily basis at any selectable time. Manual override of this feature shall be possible.		
4.25 Each tape transport drawer module shall not require more than eleven inches of vertical cabinet mounting space.		
4.26 Each transport module shall contain all electronics necessary for audio recording, time code recording, playback and safe scan monitoring functions for up to 60 channels provided by its own dedicated microprocessor.		
4.27 Each transport module drawer shall be equipped with an electronic lock that prevents access without entering a password in the central control CRT. The transports shall have the capability of being opened with a key in the event an extended power failure prevents operation of the electronic lock.		
4.28 The time code generator within the transport modules dedicated microprocessor shall write a code on the tape that contains a 3 digit programmable machine identification number, system deck number, year, month, day, hour, minute and second. This time code will be synchronized to the master clock in the central CRT control. This time code will be multiplexed and allow full use of this channel for audio recording. All channels must meet the published overall specifications.		
4.29 Should master synchronization be lost, the time will be kept from an internal crystal oscillator within each transport and automatically resync to master time when it resumes.		
4.30 The automatic safe scan within each transport module shall monitor the 80Hz guard tone and the time code channel. The safe scan shall take no more than 1.875 seconds to check 60 channels. The safe scan will alert the central control CRT if any failure is detected.		
4.31 From the central control CRT the safe scan fail time shall be programmable from 8 to 60 seconds.		

000621

	Comply	Exception
4.32 From the central control CRT, it shall be possible to program the automatic safe scan to skip unused channels.		
4.33 In addition to safe scan the transport module microprocessor shall monitor its own bias level, tape speed, spindle rotation and alert the central control CRT if any malfunction is detected.		
4.34 It shall be possible to field expand any transport to a larger channel configuration within the transport tape sizes.		
4.35 The transport shall be designed for horizontal mount in a sliding drawer or vertical mount in a 19" rack.		
4.36 The quoted system new transport design shall not obsolete the usage of tapes recorded on the previous model and shall play those tapes back and provide time/date search capability.		
4.37 The individual transports shall contain a program that automatically slows the reels at the beginning of tape or end of tape in the fast forward and fast rewind operations providing gentle tape handling.		
4.38 It shall be possible to select VOX operation by transport, allowing one or more transports to run continuously or one or more transports to run VOX.		
4.39 It shall be possible to provide two tape transports recording active communications backed up by one tape transport providing 50% redundancy. This two over one configuration shall be completely standard and require no mechanical or software modifications.		
4.40 It shall be possible to provide three tape transports recording active communications backed up by one tape transport providing 33% redundancy. This three over one configuration shall be completely standard and require no mechanical or software modifications.		
4.41 It shall be possible in either the two over one or three over one configuration to run the stand by deck in parallel with any of the on line transports, providing a "scratch pad" operation. When this function is selected, any failure on a primary record transport will cause the scratch pad operation to cease and transfer failed transport recording to the stand by deck automatically.		
5.00 ELECTRICAL		
5.01 Commercial power requirements shall be 95–125 volts A/C 60Hz or a dedicated DC power source.		
5.02 The entire system shall be designed to minimize heat dissipation. Maximum power consumption shall be less than 625 watts/7.5 amps (850 watts peak).		

000622

Comply	Exception

5.03 The self contained power supply shall convert the main A/C voltage to 18 volt D/C voltage and provide this to all components of the system.

5.04 The power supply module shall include an internal 18 volt sealed lead acid battery that will provide all operating voltages to provide full operation of an entire system for at least 10 minutes upon failure of the commercial power source. This UPS system shall be an integral design feature of the system and any commercially purchased and added external computer type UPS systems are not acceptable. Please state if UPS quoted is part of the internal design architecture or a separate purchased accessory providing a battery converting to A/C to run the system when main A/C failure occurs.

5.05 There shall be space within the power supply module to provide an optional fully duplicated D/C power supply. This optional second power supply will remain in the standby mode and come on line if any failure is detected in the primary power supply.

5.06 The following indicators will be located on the front panel of the power supply module.

1. Primary power module 1 & 2 – O.K.
2. Backup module 1 & 2 – O.K.
3. Battery in use
4. Battery charging

Also located on this front panel is a key operated on/off switch.

When the key is turned to the off position, the internal battery is disconnected and the entire system is turned off.

5.07 The primary power supply shall provide DC for all operating transports. Upon failure the secondary power supply shall also provide DC power for all transports. Any system quoted providing back up power dedicated to only one transport is unacceptable. Please describe back up power engineering method and attach to response.

6.00 PHYSICAL

6.01 All system elements shall be arranged for 19" rack mounting and transports shall be mounted horizontally in locking sliding drawers housed in a cabinet of the following dimensions.

Standard Cabinet	67" H 24" W 32" D	Expanded Cabinet	88" H 24" W 32" D

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Comply	Exception

6.02 The 67" standard cabinet shall be capable of housing 2 transport modules, 1 amplifier module, 1 CRT central controller module, 1 accessory module, 1 power supply module, up to 120 amplifiers and up to 120 telephone/radio interface cards.

6.03 The 88" cabinet shall be capable of housing 4 transport modules, 2 amplifier modules, 1 CRT central controller module, 1 accessory module, 1 power supply module, 240 record amplifiers and 240 telephone/radio interface cards.

6.04 The weight of the full 67" cabinet shall not exceed 400 lbs. and the weight of the full 88" cabinet shall not exceed 600 lbs.

6.05 Must provide a stable, rolling caster, UL approved base assembly for easy movement but not tip over.

7.00 ENVIRONMENTAL SPECIFICATIONS

7.01 The storage temperature shall be –10 to 70 degrees centigrade.

7.02 The operating temperature shall be 5 degrees centigrade to 32 degrees centigrade.

7.03 The operating relative humidity shall not exceed 90% RH non–condensing.

.04 The average BTU's generated by a fully operating recorder reproducer shall not exceed 1000 BTU's per hour.

8.00 OPTIONAL ITEMS

8.01 A FULL FUNCTION CRT REMOTE CONTROL WORK STATION shall be provided. This microprocessor driven unit will permit full control of the master recorder from a remote location. The CRT screen must show status of this system as a whole and each transport up to four independently. All record search and playback operations shall be directed with state of the art multifunction controls, volume control speaker, headset jack and manual control strip identical to the master recorder must be on this panel. Space shall be available to house a full function cassette record panel to work in conjunction with the remote. Up to four of these work stations may be installed with one system. Automatic privacy shall be provided when multiple work stations are used.

8.02 A CASSETTE RERECORD PANEL shall be provided. This standard cassette, one channel recorder shall be built onto a panel not to exceed 1.75" high and 19" wide. This unit must install into the cabinet of either the master recorder, portable reproducer or remote control console. The cassette panel must contain these controls, VOX record, continuous record and eject tape. The panel shall contain LED indicators for "Audio Recording", "VOX Record" and continuous record. This module shall also contain a second track where the digital time being reproduced is converted to a voice time and recorded on that track.

000624

Comply	Exception

8.03 A complete BACK UP DC POWER SUPPLY shall be provided that will automatically switch on upon any failure of the primary unit. This power supply will provide all of the DC voltages needed to operate an entire system of up to four transports. The following LED indicators shall be on the front of the power supply module. Primary module 1 and 2 "OK", back up module 1 and 2 "OK", battery "in use" and battery charging.

8.04 An optional TELEPHONE-BEEPING UNIVERSAL INPUT coupler shall be available for each designated telephone line or work position to be recorded. The universal input shall replace the standard non-beeping universal inputs that are provided as standard with the system. The beeper universal inputs shall be FCC approved and provide a beep every 15 seconds.

8.05 A REMOTE ALARM AND STATUS PANEL shall be provided which will give audible and visual indications of any failure condition at a remote location for up to four transports. This panel shall be 19" rack mountable with an optional desk top enclosure.

8.06 AUDIO SIGNAL ACTIVE COMBINERS which electronically combine two audio sources (i.e. duplex radio system) into one audio input to the recorder shall be provided. These combiners must include individual input control adjustments and be part of the universal inputs.

8.07 SLAVE CLOCKS will bright LED displays and slaved to the Series 9000 system master time clock shall be provided. These clocks shall be rack mountable in 1.75" high slots in a 19" rack or desk top mounted or a MATRIX WALL CLOCK version shall also be provided displaying hours, minutes and seconds with a scrolling date/display every minute.

8.08 A REDUNDANT SET OF RECORD AMPLIFIERS shall be provided that will automatically switch on should any malfunction be detected in the primary record amplifiers. When these back up amplifiers are installed, along with a backup power supply in a two transport system, 100% system redundancy shall be possible with out effecting individual transport operation or total system operation. Systems that fail an entire transport on amplifier or power supply failure are unacceptable.

9.00 PORTABLE REPRODUCER/TRANSCRIBER

9.01 A SINGLE TRANSPORT PORTABLE REPRODUCER completely compatible with the associated voice communication recorder/reproducer shall be provided.

9.02 This system shall be designed to reproduce the tapes recorded on the master recorder and provide a playback display of the recorded time/date along with machine ID# information.

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Comply	Exception

9.03 This reproducer shall include a CRT MONITOR that displays a series of easy to read screens. This monitor shall have a membrane switch containing five soft keys, a dedicated "previous screen" key, numeric key pad and a soft membrane search strip associated with it identical to the master recorder.

9.04 The tape transport shall be of IDENTICAL design as the MASTER RECORDER but have no record or erase capability.

9.05 The following control buttons shall be provided on the tape transport in addition to the CRT control switches REWIND, FAST FORWARD, PLAY, STOP, SPEED CONTROL AND AUTOMATIC BACKSPACE SELECTION.

9.06 The reproducer shall meet all electronic/audio and electrical specifications of the master recorder.

9.07 The features AUTO-SEARCH, AUDIO-SEARCH, VARIABLE SPEED SEARCH, ACTIVITY MONITOR, MULTIPLE CHANNEL PLAYBACK AND AUTO RERECORD must be available on the playback system.

9.08 A VARIABLE SPEED CONTROL and ADJUSTABLE BACKSPACE CONTROL shall also be provided to facilitate transcription of prerecorded tapes.

9.10 All equipment and features listed above shall be housed in a portable carrying case, with dimensions not exceeding 40" in height, 24" in width and 24" in depth. A plexiglas door shall be included that covers the entire front of the case. Total weight should not exceed 90 lbs.

9.11 The system should be able to accept a built-in rerecord panel with no modification to the cabinet.

9.12 The optional portable reproducer shall be fully compatible with the tape of the same size and channel configuration recorded on the vendors previous models. Auto search and time/date display functions shall be fully operational.

9.13 The portable reproducer shall include an empty tape reel, a set of head phones and a foot control to facilitate ease of transcription.

10.00 SUPPLIES AND ACCESSORIES

10.01 _____Sets of headphones shall be provided.

10.02 _____Head demagnitizer and cleaning kits shall be provided.

10.03 _____Bulk tape erasers shall be provided.

10.04 _____Extra take up reels shall be provided.

10.05 _____Tape splicers shall be provided.

000626

	Comply	Exception
10.06 _____ Reels of 3600 ft, 1 mil thick, low noise recording tape shall be provided. Any tape with thickness less than one mil or not specifically designed for slow speed voice recordings is unacceptable.		
10.07 _____ Boxes of head cleaning pads made of material that does not shed or contain any solution not recommended by the manufacturer shall be provided.		

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