APPENDIX B
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GLOSSARY OF TERMS

Acceptance Mark: A work, name, symbol, logo, or other device, or any combination of such, that is adopted and used to identify the goods or services of one entity from the goods and services of another entity. A Mark that identifies goods is commonly known as a "trademark." A Mark that identifies services is commonly known as a "service mark."

Acquirer System: The telecommunications and processing system (including software and hardware) operated by or on behalf of an Acquirer through which Transactions originating at ATMs or Merchants of that Acquirer are processed and routed to the GDI.

Activity Limits File: The file containing maximum limits (amount and/or number of Transactions) established by a GDI for each account or card on the number of Transactions that may be authorized, subject to any other stand-in authorization limits set by the GDI, on behalf of the GDI when that GDI is not available to provide authorizations.

ACF: Administration for Children and Families of the U.S. Department of Health and Human Services, the Federal program agency responsible for the Temporary Assistance to Needy Families (TANF) Program, Child Support Enforcement, and other cash assistance programs authorized under the Social Security Act.

ACH (Automated Clearing House): The ACH Network is operated by the Federal Reserve and financial institutions to electronically process and settle funds transfers between financial institutions.

Acquirer: A financial institution participant that either (i) owns or operates automated teller machines and/or (ii) signs Merchant Agreements with Merchants for the acceptance of West Virginia EBT Cards and/or (iii) signs agreements with ATM Terminal Drivers for the acceptance of West Virginia EBT Transactions.

Adjustment: A debit or credit Transaction initiated by the ATM Acquirer, to correct a system error, correct an inaccurate record of a transaction, or to correct an out-of-balance condition identified in the settlement process.

ANSI (American National Standards Institute): U.S. Standards group responsible for issuing U.S. standards and maintaining consistency with similar international standards.

ATM Acquirer: A financial institution that owns, operates, or controls automated teller machines, or sponsors ATMs owned, operated, or controlled by a third party, that accepts the West Virginia EBT Card for cash withdrawals and balance inquiries related to Cash Accounts and which display the West Virginia EBT Logo.

ATM Transaction: A Transaction authorized from a Cash Account in which the Transaction is either (i) a cash withdrawal at an ATM or (ii) a Balance Inquiry from the Cardholder's Cash Account at an ATM.

Authorization: The approval of transactions either by the GDI or on behalf of that GDI either on-line, during stand-in or by telephone authorization.

Balance Inquiry: A transaction whereby the Cardholder obtains his or her Account balance at the ATM, the POS or a stand-alone balance inquiry terminal. At the ATM, only the Cash Account balance is available. At the POS and the optional stand-alone terminal, the Food Stamp and/or Cash Account balances are available at the retailer's option.

Bank Identifier Number (BIN): A set of numbers as assigned by the American Bankers Association which appears on a West Virginia EBT Card and identifies a GDI for purposes of interchange (sometimes referred to as IIN).

Business Day: All week days excluding those on which the Federal Reserve Bank is closed.

Cancellation: An electronic message sent by the Merchant, the Acquirer or the Processor to nullify a previously transmitted transaction request or transaction response.

Card: A plastic card that bears the Quest Mark and that can be used to effect Transactions. This refers to the West Virginia EBT Card which is issued to a Cardholder on behalf of the government by the GDI to access government cash benefits, Food Stamp benefits, and /or WIC benefits.

Card Authentication Value (CAV): A cryptographic value encoded on Track 2 used to validate the card's contents.

Cardholder: A recipient to whom a West Virginia EBT Card has been issued by a GDI for whom such GDI maintains one or more government benefit accounts that may be accessed by the Card, or any other person authorized to use the Card.

Cardholder Dispute: A dispute initiated by a GDI on behalf of a Cardholder pursuant to procedures established by the West Virginia EBT Program for all or part of an amount for which settlement occurred.

Cash Account: An authorization file for the Cash Benefit Account maintained by a GDI on behalf of a Cardholder that represents pre-funded or day-of-draw benefits, or both, administered by one or more government entities, and for which the GDI has agreed to provide access under the Quest Operating Rules. Multiple benefits may be combined in a single Cash Account.

Cashback Transaction: A POS Transaction authorized from a Cash Account in which all or part of the Transaction amount debited against the Cardholder's account is given to the Cardholder by the Merchant in the form of cash or cash back with a purchase.

Chained Transactions: Multiple Transactions that occur without the reentry of Card and/or PIN.

Chargeback: A Transaction that is returned to an ATM Acquirer or a Merchant Acquirer by a GDI in accordance with the Quest Operating Rules.

Claim: Includes personal injury, property losses, damages (including indirect, consequential, special or incidental damages), losses, suits, claims, expenses, costs (including attorney's fees), or any other liability, under any theory whatsoever, including without limitation, tort or contract.

Controller: The device that captures and consolidates transactions from a group of terminals to be transmitted to another node or entity. For example, the POS devices in all lanes of one store are first transmitted to one store controller, then transmitted to an Acquirer.

Correction: A transaction conducted to correct an error after the customer has left the point of sale.

Credit Draft Transaction: An off-line manual Food Stamp or cash transaction used to credit the Cardholder's Account for the refund of a Food Stamp or cash purchase.

Cryptography: The program by which a PIN is transformed so as to be rendered unintelligible during transmission.

Data Encryption Standard (DES): The Data Encryption Standard as promulgated by the National Bureau of Standards. An encryption/decryption algorithm published by ANSI as Standard X3.92-1981 used to encrypt PIN data in EBT and EFT transactions for secure transmission.
Debit: A Transaction initiated by a Cardholder at a Terminal with the use of a PIN to effect a payment that results in a decrease in the balance of the Cardholder's Account.

Decline: The denial of a Transaction by a GDI or on behalf of the GDI either on-line, during stand-in, or telephone authorization.

Direct Deposit: The process by which a GDI credits a client's or provider's bank account by an ACH transaction upon authorization by the West Virginia EBT Program.

Dispute Resolution: The process used to respond to Participant inquiries, correct errors, and resolve disagreements between Participants as to the final status of an exception item.

Downtime: The failure of some required Transaction processing system component which prevents the Acquirer from obtaining GDI approval of the Transaction amount, with Cardholder PIN and the Magnetic Stripe data, prior to completion of a Transaction.

EBT: Electronic Benefits Transfer, the delivery of government benefits through electronic means and equipment.

EBT Account: Refers to the Cash, Food Stamps, and WIC benefit accounts offered through the West Virginia EBT system.

Encryption Support Service Provider (ESSP): An organization, which is not an Acquirer, whose EBT-related business relationship with an Acquirer includes: (i) loading software into a terminal which will accept West Virginia EBT Cards, (ii) loading or injecting encryption keys into terminals or PIN pads, or (iii) merchant help desk support which includes re-programming of terminal software.

Encryption: The method used which protects PIN data by transforming the PIN into cryptographic form. The translation of data, through means of hardware devices or software programs, which renders transmitted data unintelligible and thereby protects the privacy of information.

Financial Agent: The EBT Vendor, GDI, or Contractor operating on behalf of West Virginia to deliver EBT financial services; ACH; electronic transactions, and settlement services.

FNS: The Food and Nutrition Service of the United States Department of Agriculture, the Federal program agency responsible for Food Stamps and other types of food assistance benefits.

Food Stamp Account: An authorization file maintained by a GDI on behalf of a Cardholder from which Food Stamp purchase transactions at approved Food Stamp Merchants are authorized.

Food Stamp and Cash Icon: Merchant locations that provide Food Stamp and cash benefits will display a Quest Logo which includes an icon identifying it as a licensed Food Stamp Merchant.

Food Stamp Merchandise Refund Transaction: A Transaction initiated through use of a West Virginia EBT Card at the point of sale of Merchant to credit the West Virginia EBT Cardholder's account for a return of merchandise originally purchased under the Food Stamp Program with the same West Virginia EBT Card.

Food Stamp Merchant Code (FSMC) Table: A table containing ID numbers of those Merchants who are authorized under the Food Stamp Program. This table typically resides at the Acquirer, but can reside

at the Switch or the GDI. Before a Transaction can be routed for authorization, this table must be checked for Merchant validation.

Food Stamp Transaction: A Transaction authorized from a Food Stamp Account in which the entire Transaction amount debited is for the purchase of food at approved Food Stamp Merchants in accordance with requirements of the Food Stamp Program. A Food Stamp Transaction must not include cashback.

Fraudulent Transaction: A Transaction conducted with the intent to defraud.

Gateway: A service provided by a Network for access to other regional and national Networks.

Government Agencies: Include state and county governments and U.S. Federal agencies and departments.

Government Designated Issuer (GDI): An issuing financial institution capable of designation by the U.S. Treasury to issue government benefits to recipients on its behalf. The GDI, or its Processor, maintains Cash Accounts and/or Food Stamp Accounts on behalf of the Cardholder and provides authorization services.

GDI System: The telecommunications and processing system (including software and hardware) operated by or on behalf of a GDI for receiving transaction requests.

Grievance: A disagreement filed by one Participant against another Participant that cannot be resolved by direct communication between Participants and which must be resolved by the West Virginia EBT Program.

Host: A central processor/computer which can act as a database processor and/or switch for Transactions leaving or coming into a central processor.

Host Security Module: A Security Module that resides at the Host (see Security Module).

ISO: The International Standards Organization

Issuer Identification Number (IIN): A set of numbers as assigned by the American Bankers Association which appears on a West Virginia EBT Card and identifies a GDI for purposes of interchange (more frequently referred to as BIN).

Interchange Transactions: The exchange of authorization requests and responses to such requests between participants through a Switch.

ISO 8583: International Standards Organization standard for retail financial transactions. Adopted and modified by the American National Standards Institute (ANSI) X9.2-1988.

IVR: Interactive Voice Response, the call center system using voice activated responses for retailer and cardholder customer service functions.

Key or Cryptographic Key: A mathematical value that is used in an algorithm to transform plain text into cipher text or vice versa.

Logo: The West Virginia EBT Program Logo.

Magnetic Stripe: A stripe of magnetic tape that is affixed to the reverse side of West Virginia EBT Cards and that meets all applicable RFP, Quest Operating Rules, and EBT Security Manual Guidelines and

Standards.

Magnetic Stripe Reader: A device at the point-of-sale terminal that is capable of reading Track 2 of the magnetic stripe on a Card and that meets all applicable RFP, Quest Operating Rules, and EBT Security Manual Guidelines and Standards.

Manual Food Assistance Transaction: An off-line Food Stamp Transaction whereby the Merchant completes a paper sales draft and obtains the Cardholder's signature as well as a Telephone Authorization Code from the GDI.
Member: A GDI or an Acquirer who participates in the West Virginia EBT Program.

Merchant: A person or entity that has entered into a Merchant Agreement with a Financial Institution Acquirer to accept West Virginia EBT Cards for purchases of goods or services.

Merchant Agreement: A written agreement between a Merchant and a Financial Institution Acquirer setting forth the respective rights and duties of the parties with respect to Transactions initiated through use of a West Virginia EBT Card and in accordance with the Quest Operating Rules.

Minimum Acceptable PIN Entry Device: A device that relies on a key management technique to limit the disclosure of secret data to that used in a single Transaction in the particular device.

Network: A Switch, together with all other computer hardware and software connected to the Switch, all telecommunications facilities and equipment utilized in connection therewith, and all other agreements and documents including the Quest Operating Rules utilized by the Network for the purpose of supporting the interchange of Transactions.

Node: Any point or location at which computer processing is performed in the flow of Transactions. There are four basic Nodes: Terminal Node, Acquiring Node, Switch Node, and Authorization Node.

On-Line Transaction: A Transaction that is processed through to the GDI at the time of Cardholder initiation.

Participant: A GDI, Acquirer, Processor, Third Party Service Provider, Network or Merchant that participates in the routing and processing of Transactions and servicing West Virginia EBT.

Personal Identification Number (PIN): A four to six character alphanumeric code, issued to or selected by the Cardholder, that must be utilized by the Cardholder with a Card to initiate a Transaction.

Physically Secure Device: A hardware device which when operated in its intended manner and environment cannot be successfully penetrated to disclose all or part of any cryptographic key or PIN resident within the device.

PIN Entry Device: See definition of PIN Pad.

PIN Pad: A device through which a Cardholder may enter his or her PIN at a terminal, that meets all applicable standards contained in the Quest Operating Rules and EBT Security Manual Guidelines.

PIN Verification: The procedure utilized by or on behalf of the GDI to verify the authenticity of a PIN upon receipt of a Transaction Request.
Preauthorization: The approval, in advance, of a Transaction up to a specified dollar amount either by or on behalf of an GDI to guarantee funds for a purchase to be completed at a later time.

Preauthorization Completion: A Transaction utilized to notify the GDI of the final outcome of a

previously authorized preauthorization. The amount of the Preauthorization Completion must never exceed the original amount of the Preauthorization to which it relates.

Primary Account Number (PAN): The Primary Account Number that identifies the GDI and the Cardholder and is fully displayed and encoded on the West Virginia EBT Card.

Processor: Any company acting in whole or in part as a GDI System or Acquirer System on behalf of the GDI or Acquirer that processes Transactions.

Purchase Transaction: A Transaction authorized from either a Cash Account, Food Stamp, or WIC Account in which the Transaction amount debited or authorized is for the purchase of goods, services, and in the case of WIC, prescription food items. Cash Account Purchase Transactions may include cash back.

Quest Operating Rules: The Quest Operating Rules, including all exhibits thereto and all documents incorporated therein, as amended from time to time by the National Automated Clearing House Association (NACHA).

Recipient: An individual who has been declared eligible for government benefits or services.

Reconciliation: A message generated by an Acquirer or GDI which advises the receiver of settlement information regarding Transactions processed between the sender and the receiver.

Reference File: A file maintained by the West Virginia EBT Program which contains company names and other information about Independent Sales Organizations, Encryption Support Service Providers, and Processors that meet the registration requirements of the Third Party Registration Program.

Regulation E: The regulation, and all amendments thereto and official interpretations thereof (12 CFR Part 205), promulgated by the Board of Governors of the Federal Reserve System implementing Title IX (Electronic Fund Transfer Act) of the Consumer Protection Act as amended and the Electronic Fund Transfer Act and any amendments thereto.

Request for Documentation: A Transaction initiated by a GDI to request documentation (i.e., copies of the Transaction Record) from an Acquirer.

Resubmission: The electronic submission of a Transaction that was initially stored by the Merchant pursuant to the provisions governing manual Food Stamp Transactions.

Reversal: The electronic reversal or cancellation of the full amount of a prior Transaction. (A partial Reversal can take place at an ATM due to an incomplete dispense.)

Sales Draft: A paper sales draft, used to affect Manual Food Stamp Transactions as provided for in the Quest Operating Rules.

Secure Cryptographic Device: A device that ensures the security of the PIN and its encryption. A Secure Cryptographic Device can be a Physically Secure Device or a Minimum Acceptable PIN Device.

Security Audit Package: A Compliance Review Form, a Compliance Statement and an Audit Exception Form.

Security Manual: The Guide which contains the security measures adopted for safeguarding and protecting the West Virginia EBT Cards, Transactions, data sites, communications, hardware and software used in the operation of the West Virginia EBT Program, based on the Quest Operating Rules, FNS Security Guidelines, and any other commercially recognized security guidelines.

Security Module: A tamper-resistant Physically Secure device possessing specialized security features and functions required for cryptographic PIN security and dynamic key management.

Security Self Audit: An audit performed by each Participant and verified by an internal or external auditor prior to commencing live operations in the West Virginia EBT Program and at a minimum of every three years thereafter which ensure compliance with the security requirements of the West Virginia EBT Program.

Settlement: A transfer of funds among participants pursuant to Federal regulations, NACHA rules, industry-standard policies and established procedures.

Settlement Account: A depository account maintained by or on behalf of a GDI or Acquirer for the purpose of Settlement.

Sponsored Third Party Provider: A Third Party that satisfies all the requirements of a sponsored member and that has been accepted into membership to provide services to a West Virginia EBT Program Participant.

Stand-Alone Balance Inquiry Terminal: A POS Terminal situated away from the checkout lane which permits the Cardholder to check the balance in his or her Food Stamp Account and Cash Account.

Stand-In Processing/Authorization: The process whereby the Switch provider, or other processing entity, authorizes Transactions in place of a GDI or its Processor at times when it is unable to authorize such Transactions.

Store and Forward Transaction: The process by which a Merchant's system stores a Transaction and encrypted PIN when the System is inoperative.

Surcharge: A fee deducted from a Cardholder's Account by an Acquirer or Merchant for a Transaction initiated at an ATM or POS Terminal. This fee is in addition to a Transaction fee that an Issuer could charge the Cardholder. (Surcharging is prohibited).

Switch: The computer hardware and software operated by or on behalf of a Network for the purpose of routing Transactions among Participants.

Switch Settlement: The processing, reporting, and funds settlement of daily Transaction activity within a Network.

Telephone Authorization Code: The code that a Merchant obtains by telephone to authorize a Food Stamp, Cash, or WIC Transaction when the System is inoperative.

Terminal: A device used at the point of sale, or an ATM, through which a Transaction may be processed and which meets all applicable standards contained in the RFP.

Terminal Driver/Operator: The entity that operates the POS or ATM Terminals for a merchant or a Financial Institution.

Third Party Registration Application Packet: The application packet to register as a third party service provider incorporated as described in the Quest Operating Rules.

Third Party Registration Program: The third party service provider registration program described in the Quest Operating Rules.

Third Party Service Provider: An organization or individual that is not a Member and that provides EBT services as an Independent Sales Organization, Encryption Support Service Provider, Network and/or Processor as described in the Quest Operating Rules.

Time-Out: The length of time in which a terminal, a GDI's Processor or an Acquirer's Processor must reply before the Transaction is terminated by other Processors in the Network.

Trace Number: The number assigned by the Acquirer System to identify a Transaction.

Transaction: An electronic message interchanged between Participants that results in the exchange of financial information. A Cash Account or Food Stamp Transaction initiated through use of a West Virginia EBT Card at an ATM or at the point of sale of a Merchant, or a WIC Account Transaction initiated through use of a West Virginia EBT card at the point of sale of a WIC Authorized Merchant.

Transaction Date: The calendar date on which a request for a funds transfer pursuant to a Transaction was initiated.

Transaction Logs: A daily record of all Transactions processed through the West Virginia EBT Program.

Transaction Record: An electronic record or hard copy report of each transaction, including Cash Transactions, Food Stamp Transactions, WIC Transactions, Chargebacks, and Representations sent by an Acquirer or GDI.

Transaction Request: An electronic message sent by an Acquirer, to a GDI, requesting a response.

Transaction Response: An electronic message sent to the Acquirer, by the GDI, in response to a Transaction Request.

Unauthorized Transaction: A Transaction for which authorization is not, and has not been, received by or on behalf of the Merchant or the Acquirer from the GDI or its Processor.

Zone Encryption: A zone begins at a device that encrypts the PIN in the zone's DES key(s) and continues through the communications facilities used to transmit the Transaction. A zone ends when the encrypted PIN is decrypted using the same DES Key(s).

IS & C Data Center Hardware

CPUs

1	IBM z/890 (Model 2086-A04) Enterprise Server

DASD

1	IBM 2105-800 TotalStorage Enterprise Storage Server with 4.2 TB with 14 ESCON Ports, FlashCopy, PAV, and:
2	2124 72.8GB Disk, 8-pack, 10K RPM
4	2125 145.6GB Disk, 8-pack
1	2717 ESS Master Console
1	2924 Operator Panel Lang, US English
7	3013 Dual Port 64 Bit ESCON Adapters
1	4014 16 GB Cache
1	8005 PAV - Up to 6TB
1	8305 FlashCopy - Up to 6TB
7	9770 STD ESCON Cable (MT/RJ-DUP QTY 14)
1	9854 Three-Phase 50/60 Hz, 60 Amp
1	9870 Nominal AC Voltage: 200V240V
1	2240-FLC ESS Function Authorization
1	8305 FlashCopy - Up to 6TB
1	9934 IBM E-server z Series Designator
1	2240-PAV ESS Function Authorization
1	8005 PAV - Up to 6TB
1	9934 IBM E-Server z Series Designator

Tape Units

2	STK 9310 Library Storage Module
1	STK 9311 Library Control Unit
1	STK 4410 Library Storage Module
1	STK 4411 Library Control Unit
1	STK 4430 Library Management Unit
4	STK 9490 M34 Cartridge Drive (16 Transports)
1	IBM 3590-B1A Cartridge Drive (12 Transports)
3	IBM 3590-A50 Tape Control Unit

Channel-Attached Printers

2	IBM InfoPrint 4000 Printer (Models ID1/ID2)
1	STK 5000 Impact Printer

Supplementary Printing Equipment

1	Roll Systems 800152 Unwinder
2	Roll Systems 800162 Folder/Job Separator
1	Roll Systems 501254 Output Unloader
1	Roll Systems 503176 Cutter
1	Roll Systems 503410 Trimmer

1 Roll Systems 500777 Stacker

1 Roll Systems 50386601 Web Handler

Communications Equipment

1 Cisco Systems 7513 Router
1 Cisco Systems AS5200 (used for remote ISDN applications)
1 Cisco Systems Pix Firewall
2 IBM 31741L Cluster Controller

Network Diagnostic Equipment

1 Spectrol 601C Data Analyzer

End of I S &C Data Center Hardware

ENVIROMENTAL SUPPORT SYSTEMS
Effective 02/01/04

UPS

1	Emerson Electric Model AP541, with 61 wet cell batteries 300KVA 208/120 3 phase

HVAC Units

1	Trane Model CG 60D reciprocating machine, serial number LIH-64228, and associated condenser unit
1	EDPAC 10-ton DCW, serial number 209403
2	EDPAC 20-ton DCW, serial number
1	EDPAC, Model DCXC23, 20-ton and associated condenser unit
3	Liebert Model FH422C, 30-ton
1	McQuay Model WHR100D-A, 110-ton, with associated condenser unit
2	Peerless pumps, Model 12825AMB1
3	Liebert AC3 auto-changeover controllers
1	Liebert Deluxe System 3 Chiller water systems, Model UH200C-DAEI, 10-ton each
1	Liebert Deluxe System 3 Chilled water system, Model FH302C-DAEI 15-ton

End Environmental Support Systems

EQUIPMENT POWER REQUIREMENTS

Effective 01/29/04

LIEBERT POWER DISTRIBUTION UNIT (NORTH)
CAPACITY 150 KVA CURRENT USAGE 22KVA

VENDOR/MODEL	POWER	AMPERAGE	CONNECTOR
IBM/3745/FEP	3 PHASE	60 AMP	RS 7324
EMC/5500/#1	3 PHASE	30 AMP	RS 3754
STK/LCU/#1	SINGLE	20 AMP	RS 3743
STK/LCU/#2	SINGLE	20 AMP	RS 3743
EMC/5700/#1	3 PHASE	30 AMP	RS 3754
STK/TIMBERLINE	SINGLE	20 AMP	RS 3743
STK/LCU/#0	SINGLE	20 AMP	RS 3743
EMC/5500/#2	3 PHASE	30 AMP	RS 3754
STK/LMU	SINGLE	20 AMP	RS 3743
EMC/5700/#2	3 PHASE	30 AMP	RS 3754
IBM/MAGSTAR/#1	SINGLE	30 AMP	RS 3753

LIEBERT POWER DISTIBUTION UNIT (SOUTH)
CAPACITY 150 KVA CURRENT USAGE 10 KVA

VENDOR/MODEL	POWER	AMPERAGE	CONNECTOR
STK/4490/150 TAPE	3 PHASE	30 AMP	RS 3754
IBM/9672/R32	3 PHASE	30 AMP	RS 3754
STK/TIMBERLINE	SINGLE	20 AMP	RS 3743
IBM/MAGSTAR/#2	SINGLE	30 AMP	RS 3753
IBM/9672/R66	3 PHASE	30 AMP	RS 3754
IBM/9672/R66	3 PHASE	30 AMP	RS 3754
IBM/9672/R32	3 PHASE	30 AMP	RS 3754
3174/LOCAL CONT.	SINGLE	30 AMP	STD. OUTLETS
STK/4490/150 TAPE	3 PHASE	30 AMP	RS 3754
IBM/MAGSTAR #3	SINGLE	30 AMP	RS 3753
STK/TIMBERLINE	SINGLE	20 AMP	RS 3743
(2) HMO CONSOLE	SINGLE	20 AMP	STD
(4) STK/TIMBERLINE	SINGLE	20 AMP	RS 3743

PRINTER AREA (OLD COMPUTER ROOM AREA)

IBM/InfoPrint 4000	3 PHASE	60 AMP	460C9V05
IBM/InfoPrint4000	3 PHASE	60 AMP	460C9V05
STK/5000	3 PHASE	30 AMP	RS 3754

===== ALL POWER IS RATED AT 208 VOLTAGE .

===== APPROXIMATELY 30 TON OF AIR CONDITIONING WILL BE REQUIRED.

VENDOR/SOFTWARE	FUNCTION
IBM	
z/OS V1, R4 (V1.7 pending) (5751-CS9)	Operating system
RMF V1, R4 (V1.7 pending) (5694-A01)	Provides basis for tuning the system to user requirements and tracks resource utilization
DFSMS/DFP/DSS/HSM V1, R4 (V1.7 pending) (5694-A01)	Provides data management, device support, program library management, utility functions, user and system catalog support, hierarchical storage manager, and dataset services for ESA operating system
SMP/E V2, R0 (5694-A01)	Supports software changes and new functions, corrective and preventative service, and user modifications in ESA
z/OS Security Server (RACF) V1, R4 (V1.7 pending) (5694-A01)	Security server
EREP V1, R4 (V1.7 pending) (5654-260)	Reports on hardware/software exceptions and conditions
SecureWay Communications Server V1, R4 (V1.7 pending) (5694-A01)	Telecommunications access method.
TSO/E V1, R4 (1.7 pending) (5694-A01)	Allows users to interactively share computer time and resources
z/VM V5, R1.0 (5741-A05)	Operating system (z/VM)
DB2 V7, R1.0 (5675-DB2)	Relational database management system that allows definition, access, and recovery of data
CICS Transaction Server for OS/390 R2.2	TP monitor (installation in progress)

(5697-E93)	
AFP Collection Fonts V1, R1.0 (5648-113)	Advanced function printing
Page Printer Formatting Aids/370 V1, R1.0 (5688-190)	Advanced function printing
Overlay Generation Language (OGL/370) V1, R1.0 (5688-191)	Advanced function printing
Print Services Facility V3, R3 (5655-B17)	Advanced function printing
DFSORT V1, R4 (5694-A01)	Sort and merge
DITTO/ESA V1, R4 (5655-103)	Multipurpose disk and tape utility
COBOL for OS/390 & VM V2,R2 (5648-A25)	Programming language
High Level Assembler V1, R4 (V1.7 pending) (5694-A01)	Language base required in operating system
SDSF V1,R4 (5694-A01)	Productivity aid used in conjunction with ISPF/PDF (TSO)
SDFII/CICS V1, R4.0 (5665-366)	CICS screen definition facility
ISPF V1, R4 (5694-A01)	TSO programmer productivity aid

OS/PL/1 Optimizer, Compiler V2, R3.0 (5668-910)	PI/1 compiler with optimizer and Library
GDDM/MVS V1, R4 (5694-A01)	Graphical data display manager
HTTP Server V5.2 (5694-A01)	Web Server
BookManager READ/MVS R3.0 (5695-046)	Online reading of books and manuals
Tivoli Storage Manager V5.3.3.0 (5697-ISM)	Data Backup
ASG	
The Monitor for CICS V2.3	CICS performance monitor
The Monitor for DB2 V3.3	DB2 performance monitor
BMC Software	
Control-M R6.0.08	Batch job scheduler
Control-M/Restart R6.0.08	Batch job restart facility
Candle	
AF/OPERATOR V340	Data Center automation
AF/REMOTE for Windows/NT V100	Enterprise server beeper/pager support (installation in progress)
Chicago-Soft	

MVS/QuickRef R6.4	Online Message and Code Reference
Computer Associates	
CA-UNICENTER TNG R2.2	Common services and enabling technology for CA systems management solutions
CA-PMA/LOOK R7.1	Real-time system performance measurement
CA-1 R11	Tape management system
CA-InterTest R6.1	CICS source code tool
CA-N-VISION/TPX R5.1	VTAM session manager
CA-LIBRARIAN/VS R4.3	User source code library
Plan Analyzer P999F V2.2.5 Unicenter PPA 11.0.1 pending	DB2 development aids
Batch Processor P99F V6.1.5 Unicenter RBP 11.0.1 pending	DB2 development aids
RC/Migrator P99F V6.1.5 Unicenter RCM 11.0.1 pending	DB2 development aids
RC/QUERY P99F V6.1.5 Unicenter RCQ 11.0.1 pending	DB2 development aids

RC/Secure P99F V6.1.5 Unicenter RCS 11.0.1 pending	DB2 development aids
RC/Update P99F V6.1.5 Unicenter RCU 11.0.1 pending	DB2 development aids
Info-Refiner P99F V3.3.0 Advantage INFOREF 11.0.1 pending	DB2 development aids
PRF P99F V4.2.5 Adv. Rept. Facility 11.0.1 pending	DB2 development aids
VISION:RESULTS R11.0	4GL information management and report generator
VISION:Sixty R11.0	Fixed-form report generator and extended utility
The following CA products are for **Tax & Revenue use only**	
CA-Datacom/DB Product Pak R10.0	Database
CA-Datacom Server R3.0	Communications component. Provides SQL access to CA-Datacom/DB mainframe data.
CA-Datacom/CICS Services R2.6	Provides communications to programs operating with CA-Datacom/DB
CA-Datacom Datadictionary R9.0	Datadictionary for CA-Datacom/DB

CA-Datacom/DL1 Transparency R2.3	Allows programs that were written for IMS/DB or DL/1 to execute unchanged under CA-Datacom/DB
CA-Datacom/Ext SQL R9.0	Extension beyond ANSI standard. Allows SQL queries on a relational database.
CA-Datacom/IMS DC Services R1.0A	Allows interfacing between IMS and Datacom: the ability to write in IMS and read in Datacom
CA-Datacom/VSAM Transparency R2.2	Conversion tool that permits a VSAM-based application to operate under the control of CA-Datacom/DB
CA-Quikserv for VSAM R1.0	Allows VSAM application to access data in Datacom that has been migrated from a VSAM environment
Information Builders	
VSAM Adaptor V5.2.3	Middleware adaptor for VTAM
Innovation	
FATS/FATAR R4.0	Tape surface verification and copy
Levi, Ray and Shoup	
VTAM Printer Support System (VPS) V1, R8.0	Supports remote printers without need for RJE connection
VPS/TCPIP R1, R8.0	Supports TCP/IP Printers
DRS V1, R3.3	Dynamically routes print output
VMCF/TSO V1, R8.1	Facilitates control of printers
MacKinney Systems	

CICS/CEMT R5.3	Allows programmers to move all or part of files in and Out of CICS via TSO
KWIK-KEY R3.3	VSAM alternate index builder
CICS/MORNING NEWS R3.0	Broadcasts news to CICS users
CICS/MESSAGE R5.0	Sends messages to terminals, userids, and operator consoles
Mobius Management Systems	
ViewDirect for MVS V6.3	Report distribution
Novell	
Linux SLES 9	Operating System
Oracle	
Oracle 9i R9.2.0.3.0	Relational data base management system
Pitney Bowes	
StreamWeaver R6.3.0	Provides added print design functionality
Princeton Softech (for Tax & Revenue use only)	
HourGlass 2000 V5.2	Testing-tool for simulation of future dates
Software AG (for DHHR use only)	

Installation of releases shown in parentheses in cells below left is scheduled to be completed by 03/31/04	
ADABAS R7.4.3	Relational database facility
ADABAS CICS Interface R7.4.3	Relational database facility
NATURAL R4.1.3	Software development tool
NATURAL CICS Interface R4.1.3	Software development tool
NATURAL Security R4.1.3	Software development tool
NATURAL TSO Interface R4.1.3	Software development tool
NATURAL-PC Connection Host R4.1.3	Software development tool
NATURAL for DB2 R4.1.3	Software development tool
PREDICT Application Audit R4.4.1	Management tool
PREDICT Application Control R4.4.2	Management tool
PREDICT R4.4.2	Data dictionary
SYSTEM MAINTENANCE AID R1.3.1	Software installation tool
EntireX Broker V7.2.1	Messaging Server
SAS Institute	
SAS	Statistical analysis, data creation, report writing

R8.1	
SAS ACCESS/DB2 R8.1	DB2 interface
SAS/FSP R8.1	Editing procedure for SAS datasets
SAS/SHARE R8.1	SAS file updating tool
Serena International	
COMPAREX R6.2.0	Compares, and highlights the difference between, two files of any structure or organization
Serena StarTool FDM V7.6.0	Multipurpose online utility
Sterling Commerce	
Connect:Direct for OS/390 V4, R4.00	Host-to-Host file transfer
StorageTek	
HSC R6.1	Host software component for automatic cartridge system
PM2 V6.0A	Reports on StorageTek hardware exceptions
Unicom Systems	
CARTS-TS R3.6.0	Tape stacking