



District School Board of Pasco County

20430 Gator Lane • Land O' Lakes, Florida 34638 • 813/794-2221

Heather Fiorentino, Superintendent

www.pasco.k12.fl.us

Department of Purchasing
Kendra Goodman, CPPO, CPPB, Purchasing Agent
813/794-2221 Fax: 813/794-2111
727/774-2221 TDD: 813/794-2484
352/524-2221 e-mail: kgoodman@pasco.k12.fl.us

June 15, 2010

MEMORANDUM

TO: Honorable School Board Members

FROM: Kendra Goodman, CPPO, CPPB, Purchasing Agent *KDG*

SUBJECT: Purchase Order #12131 and Statements of Work, Mainline Information Systems: IBM iSeries 8203-E4A CBU to Establish Geographic Mirroring for Data Protection and Disaster Recovery

Over the past year, the Information Services Department has undertaken a series of steps to implement a data protection and disaster recovery plan which protects our critical iSeries (TERMS) data systems. Please see the attached detailed memo from Mr. Bruce Baldwin, Director of Information Services, and Mr. Ed Mutell, Supervisor of Information Services.

The next step of this program is implementation of a high availability fail-over system which will protect these critical data systems. Purchase of the equipment outlined in this purchase order will protect the District from experiencing extended periods of inaccessibility to its critical Finance, Human Resources, Warehouse, Asset Management, and Student systems.

Mainline Information Systems is IBM's authorized business partner for transactions of this nature. The District is permitted to negotiate for high-technology purchases under Florida Administrative Rule 6A-1.012(14). Mainline personnel, who have installed both of the iSeries 520 computers currently in operation in the District, will install the equipment at the direction of Information Services personnel. The total expenditure will be \$167,852.04, funded through capital outlay.

We request Board signature on the attached Statements of Work, and permission to issue the above-referenced purchase order. If you have any questions or concerns regarding this matter, please feel free to contact Ed Mutell or me at your earliest convenience.

KDG/az
Attachments



District School Board of Pasco County

7227 Land O' Lakes Boulevard • Land O' Lakes, Florida 34638 • 813/794-2000

Heather Fiorentino, Superintendent

www.pasco.k12.fl.us

To: Kendra Goodman, Purchasing Agent

From: Edward B. Mutell, Supervisor of Information Services
Bruce Baldwin, Director of Information Services *[Signature]*

Date: May 24, 2010

Subject: IBM iSeries 8203-E4A CBU Purchase Request

On June 2, 2009, the School Board approved my request to purchase the Power 6 Model 520 Production System iSeries 8203-E4A with Mainline Information Systems, Inc. and to trade in the district's obsolete IBM 820 system (Serial Number A01CB/BPI # 8567543). The new iSeries 8203-E4A was installed, has been in operation as the district's primary production system, and the IBM 820 system was traded in for credit.

The School Board subsequently approved on November 3, 2009, the purchase of the hardware, software, and installation services needed to implement hardware tape encryption for the iSeries computer system. That second phase of the Data Protection and Disaster Recovery Plan was completed and all backup tapes leaving the District Office complex are now fully encrypted.

The next step of the Data Protection and Disaster Recovery Plan is to implement a high availability fail-over system to protect the critical iSeries (TERMS) data systems. High availability systems are designed to provide rapid access to data systems in the event of hardware failures, software failures, or other emergency/disaster occurrences. This critical component of the Data Protection and Disaster Recovery Plan will protect the district from experiencing extended periods of inaccessibility to its critical Finance, Human Resources, Warehouse, Asset Management, and Student systems.

I am asking for your assistance in obtaining School Board approval for the attached purchase order and statements of work. The purchase price of \$167,852.04 for the new iSeries CBU includes all hardware, software, and installation services to establish a Geographic Mirroring High Availability environment. The cost of this system will be funded through capital outlay.

Thank you very much for submitting this request for approval to the School Board. If any additional information is needed, please contact me at 42912.

May 19, 2010

Mr. Ed Mutell
Pasco County Schools
20430 Gator Lane
Land O'Lakes, FL 34639

Ed,

The PowerHA for i solution represents a unique and valuable opportunity for both Mainline and Pasco County Schools as we have presented to you often over the past year. The intention of your system purchase last year was to position your IT operations for a Disaster Recovery and High Availability Solution which may come to fruition with this proposed additional hardware and software investment.

IBM's introduction of Power HA for i last September, resulted in it becoming the focus of our efforts for the following reasons:

1. It is a hardware based replication solution which makes it easier for Pasco to administer and inherently faster, more efficient in its system utilization
2. It represented a solution that Mainline was willing to make a significant investment in terms of its implementation in order for our key personnel to learn from and to create in Pasco County Schools a top notch installation and reference site

Let me take a little time and space here to explain #2 above so that the offer is clear.

Mainline is committing to a fixed rate installation of \$15,600 which is our normal base price for implementing MIMIX (this is an alternative software based solution for HA/DR). Our internal conversations have been that the Power HA for i solution is going to be a more complex implementation. The bottom line though is that we don't know how many hours it will take to do the Power HA implementation and didn't feel like an open ended hourly contract was the right approach or fair to the school district.

The second aspect of the services effort is what personnel do we use. Your experience with Andy Foster has proven that he is a system engineer who is second to none in terms of how helpful he has been to Pasco County Schools over the years and to you in particular in the past year. I consider Andy our best system engineer. He doesn't, however, have any experience implementing Power HA for i. In order for him to learn we are planning on bringing down our High Availability Services Practice Manager, Julie Cantrell, who actually worked with the IBM Rochester team that wrote the book (IBM Redbook, that is) on iASP configuration for Power HA. You will see her name listed in the author section in the link below.
<http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg247811.html?Open>

This will give us both Julie and Andy on site with you to handle the installation. Julie has full access to the IBM team who supports the product as well as being someone who has a great deal of practical experience.

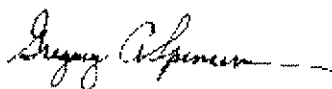
Mainline Information Systems, Inc.
2224 West End Ave
Lakeland, FL 33803



In addition to offering a fixed rate fee, Mainline is also not going to charge Pasco County Schools for any of its travel or living expenses associated with this effort. Julie lives in Chicago and will have a number of expensive trips down to Tampa the expense of which will not be borne by Pasco. This holds true for anyone else we might have to bring in for this services engagement.

All in all, the seeming generosity of this offer exists primarily because this will be our first Power HA for i implementation. This could end up costing Pasco County Schools tens of thousands of dollars more in services and T&L charges were we not motivated to make this extraordinary offer. However, Power HA is the product that best fits the needs you've discussed with Andy and Julie in the past and we want to ensure that you are a spectacular reference for Power HA going forward. We are willing to bear a great deal of the risk and cost in order to achieve this goal which will produce a success for you and for us.

Sincerely,
Mainline Information Systems



Greg Spencer

Additional Reference Information on Power HA for i

IBM® PowerHA™ for i is the IBM high availability disk-based clustering solution for the IBM i 6.1 operating system. PowerHA for i when combined with IBM i clustering technology delivers a complete high availability and disaster recovery solution for your business applications running in the IBM System i® environment. PowerHA for i enables you to support high-availability capabilities with native internal disk storage.

IBM estimates that there are over 800 customers big and small around the world that have deployed pre-6.1 independent auxiliary storage pool (iASP)-based clustering solutions. With 6.1 IBM announced the High Availability Solutions Manager (HASM) license program (LP), now called PowerHA for i, which enables IBM i-based management of an integrated storage cluster or a SAN-server-based cluster. We extended the Cross Site Mirroring (XSM) capability of IBM i to include both geographic mirroring (IBM i mirroring over IP) as well as IBM DS8000™ (and IBM DS6000™) storage replication technologies, metro mirror and global mirror. Both geographic mirroring and metro mirror are synchronous replication solutions, which is the optimal approach for high-availability deployments.

Clustering provides the underlying infrastructure that allows the resilient resources (data, devices, and applications) to be automatically or manually switched between systems. It also provides failure detection and response. In the event of an outage, cluster resource services provide mechanisms that

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enable critical resources to be automatically available on backup systems. The complexity associated with multiple systems and multiple partitions involved in a high-availability topology is managed and simplified with clustering.

PowerHA for i helps protect critical business applications from outages. Combined with IBM i 6.1, PowerHA for i delivers tools for configuring, monitoring, and managing your high-availability clustering solution.

PowerHA for i, along with IBM i 6.1, offers the following functions and benefits:

- ▶ IBM i 6.1 enables integrated support that uses IBM i and PowerHA for i to enable an end-to-end high-availability deployment and management solution. You can cluster partitions on a single system, multiple systems, or a combination of systems. PowerHA for i capabilities include switching of additional switchable devices as well as iASPs. These include printers, tape and optical devices, various communication line descriptions, and network server descriptions.
- ▶ Cluster administrative domain covers the majority of system-based objects required by switchable applications. This means that in most cases, the application environment on the cluster nodes are synchronized. Application and data can be activated seamlessly on an alternate node.
- ▶ PowerHA for i also includes integrated source and target side tracking for geographic mirroring. This means that when you detach a target system, the resync operation, after reattaching, includes only the changed objects on the source and target system.

Mainline Information Systems, Inc.
2224 West End Ave
Lakeland, FL 33803





MAINLINE INFORMATION SYSTEMS, INC.

Work Authorization For Fixed Price Domestic Deliverables

THIS Work Authorization ("Agreement") dated as of May 25, 2010, is made between Mainline Information Systems, Inc., a Florida corporation ("MAINLINE"), having its principal place of business at 1700 Summit Lake Drive, Tallahassee, Florida 32317 and Pasco County School Board ("CLIENT") having its principal place of business at 7227 Land O'Lakes Blvd, Land O'Lakes, FL 34638 (each a "Party").

WHEREAS, CLIENT desires to purchase from MAINLINE and MAINLINE desires to provide to CLIENT, the Services as further defined herein, subject to the terms and conditions of this Agreement.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

1. **SCOPE.**

Any Change Order must be mutually agreed upon by both CLIENT and MAINLINE in writing before being executed by each party authorized representative.

Document Control Number: 08589-04232010

Description: Installation services using IBM vouchers

Mainline Responsibilities

Mainline will provide installation services using IBM vouchers ## 10-ACA84-38191AA and 10-ACA84-38191AB

Client Deliverables

Services provided as requested

Dependencies

- SWMA for the iSeries server(s)

2. **COMPENSATION.**

Product	Description
MPS IADM	MPS i Series Administration

CONTRACT REVIEWED
AND APPROVED:
Kay 6/3/10

Grand Total: No Charge for up to 16 hours of service

Travel Time Rate:	Included
Travel & Living Expenses	Included
Target Start Date:	TBD



MAINLINE INFORMATION SYSTEMS, INC.

Work Authorization For Fixed Price Domestic Deliverables

WARRANTIES AND LIMITATION ON LIABILITY

MIS warrants and represents that it shall comply with all applicable federal, state and local laws, regulations and rules and provides Services in a good and workmanlike manner, in accordance with generally accepted practices and procedures and in accordance with all technical specifications as contained in any AGREEMENT.

EXCEPT FOR THE WARRANTIES IN THE SECTION ABOVE, MIS MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO THOSE SERVICES PROVIDED HEREUNDER.

MIS'S LIABILITY UNDER THIS AGREEMENT, WHETHER IN CONTRACT, TORT, OR OTHERWISE, SHALL BE LIMITED TO THE AGGREGATE AMOUNT DESCRIBED IN SECTION TWO OF THE AGREEMENT.

ADDITIONAL TERMS AND CONDITIONS

GOVERNING LAW. This AGREEMENT shall be governed by the laws of the State of Florida.

ENTIRE AGREEMENT. This AGREEMENT constitutes the entire agreement between the parties with respect to the subject matter hereof, and supersedes any and all prior expressions, whether written or oral. No waivers, alterations, or modifications of this AGREEMENT may be made unless in writing signed by both parties. This AGREEMENT shall terminate upon the services rendered under Section One of the Agreement.

COMPLIANCE WITH LAWS. Each party shall, at its own expense, comply with any governing law, statute, ordinance, administrative order, rule or regulation relating to its duties, obligations and performance under this AGREEMENT and shall procure all licenses and pay fees and other charges required thereby.

EXCLUSIVE REMEDIES. Each Party's remedies in this AGREEMENT are exclusive.

APPROVALS. Both parties warrant and represent that they have authority to execute this AGREEMENT on behalf of their company and bind them to the obligations.

CONTRACT REVIEWED
AND APPROVED:
Kaj 6/3/10



MAINLINE INFORMATION SYSTEMS, INC.

Work Authorization For Fixed Price Domestic Deliverables

CLIENT

MAINLINE INFORMATION SYSTEMS, INC.

BY: _____
(AUTHORIZED SIGNATURE)

BY: _____
(AUTHORIZED SIGNATURE)

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

CONTRACT REVIEWED
AND APPROVED:
KD 6/3/10



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Work Authorization For Fixed Price Domestic Deliverables

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CONTRACT REVIEWED
AND APPROVED:
Katz 6/3/10



MAINLINE INFORMATION SYSTEMS, INC.

Work Authorization For Fixed Price Domestic Deliverables

CLIENT

MAINLINE INFORMATION SYSTEMS, INC.

BY: _____
(AUTHORIZED SIGNATURE)

BY: _____
(AUTHORIZED SIGNATURE)

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

CONTRACT REVIEWED
AND APPROVED:
Katz 6/3/10



MAINLINE INFORMATION SYSTEMS, INC.

Work Authorization For Fixed Price Domestic Deliverables

objectives as defined in the test plan. Mainline will execute the test plan to verify that the switch complies with the expected functions. Successful execution of the test plan, approved by customer will constitute acceptance of Mainline' performed integration assistance.

Mainline, with the direction of customer, will define training requirements for the different roles and responsibilities within customer's company and will provide the appropriate training.

Mainline will prepare customized documentation of the Geographic Mirroring environment - daily management, switching and automation procedures

Client Deliverables

- Ability to switch to the backup iSeries and back again
- Competent Geographic Mirroring trained staff
- Daily Management Procedures, Switch Process, and Automated Processes

Dependencies

- Customer responsible to provide SW licensing
- Customer responsible to obtain and install recommended PTFs on all systems involved
- Customer responsible to provide communication link between two iSeries systems sufficient for data transfer
- Customer provides personnel available for skills transfer

2. COMPENSATION.

Product	Description	Qty
MPS IADM	Geographic Mirroring	1

Grand Total: \$15,600.00

Travel Time Rate:	Included
Travel & Living Expenses	Included
Target Start Date:	TBD

CONTRACT REVIEWED
AND APPROVED:
Katy 6/3/10



MAINLINE INFORMATION SYSTEMS, INC.

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NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

1. **SCOPE.**

Any Change Order must be mutually agreed upon by both CLIENT and MAINLINE in writing before being executed by each party authorized representative.

Document Control Number: 08938-05192010

Description: Mainline will provide systems integration services for the creation of a high availability environment using Geographic Mirroring. The iSeries systems will be made highly available through configuration, programming, and implementation of Geographic Mirroring (two nodes).

Mainline Responsibilities

Mainline will assist customer with getting the data restored and set up in independent ASP and test application in iASP.

Mainline will conduct a project planning workshop for the purpose of information exchange between customer and Mainline personnel. This planning session will include discussion of all issues felt relevant to the integration, including hardware, software, applications, communications, single points of failure, backup strategy, clients, switch scenarios and operational considerations.

Mainline will install/verify Option 41 5761-SS1 HA switchable resources and 5761-HAS on both systems .

Mainline will verify PTFs required for HA.

Mainline will define cluster, CRG and device domain.

Mainline will configure admin domain support and start mirroring.

Mainline will develop a comprehensive test plan, which will be used to verify successful switching of the iSeries environment.

Mainline will configure, integrate and test the switching of the iSeries environment. Mainline, with involvement from staff at customer will write any scripts or programs necessary to meet the switch

CONTRACT REVIEWED
AND APPROVED:
Katy 6/3/10

**DISTRICT SCHOOL BOARD OF PASCO COUNTY
PURCHASING DEPARTMENT
20430 GATOR LANE LAND O' LAKES, FL 34638
PHONE: 813.794.2221 FAX: 813.794.2111**

PURCHASE ORDER NUMBER
12131

INVOICE IN TRIPLICATE
INCLUDING THIS PURCHASE ORDER NUMBER TO:
District School Board of Pasco County
Accounts Payable
7227 Land O Lakes Blvd
Land O Lakes FL 34638
Telephone 813/794-2290

A TAXPAYER IDENTIFICATION NUMBER CERTIFICATION FORM WITH THE VENDOR'S CURRENT EMPLOYER IDENTIFICATION NUMBER OR SOCIAL SECURITY NUMBER MUST BE ON FILE WITH THE PURCHASING DEPARTMENT OR THE PAYMENT WILL NOT BE ISSUED.

Reasonable cost changes may be permitted, provided they are not on a blanket purchase order, bid, quote or contracted item, but must not exceed 5% of the total order without prior approval in writing from the Purchasing Department. We reserve the right to retain any and all shipped merchandise and to deny payment for any charges that are contrary to an awarded contract of this or another governmental agency, or that are beyond the aforementioned 5%.

VENDOR
MAINLINE INFORMATION SYST INC
1700 SUMMIT LAKE DRIVE
TALLAHASSEE FL 32311

SHIP TO F.O.B. DESTINATION
Delivery to Building Five
Information Services
20422 Gator Lane
Land O Lakes FL 34638

DATE PRINTED	ORDERED BY/DEPARTMENT	CLASS ITEM NO.	FEDERAL EMPLOYER ID NO.	SALES TAX EXEMPTION NO.
06/02/10	Ed Mutell for Building 5	20453	59-6000792	85-8013921275C-1

SEQ	DESCRIPTION	PCSB ITEM	QTY	UNIT	UNIT PRICE	EXTENDED AMOUNT
001	#8203-E4A Power 6 Model 520 System-CBU Specify w/16GB Main Memory, 2 core 4.2GHz 63x139.5GB SAS Disk (8.757TB RAW), Ethernet 12 Month HW & SW Maintenance 30 User License, 1 Core i5/OS entitlement PowerVM, and 1 year maintenance		1	EACH	99,978.7000	99,978.70
002	Power HA HAS and SS1 Upgrades		1	EACH	8,984.5000	8,984.50
003	#7214-1U2 External DVD Enclosure		1	EACH	2,290.7500	2,290.75
004	#9406-520 Tape Adapter and Power Distribution		1	EACH	6,329.1000	6,329.10
005	#3573-L2U LTO4 Fibre Tape Library		1	EACH	11,751.5200	11,751.52
006	LIC PGM IBM Licensed Programs 8203-E4A CBU		1	EACH	22,565.4700	22,565.47
007	Education Card		1	EACH		
008	IBM WSU 12 IBM Warranty Service Uplift 24x7 (12months)		1	EACH	352.0000	352.00
009	MPS Mainline Professional Services		1	EACH	15,600.0000	15,600.00
	* * * ITEM TOTAL * * *					167,852.04
	* * * NOTES * * *					
	Freight Included					
	Purchase Board Approved 6/15/10 Mainline Quote #85F47T-1					

INFORMATION ON REVERSE

1 - VENDOR COPY

Kendra Brodman
PURCHASING AGENT/S/

DISTRICT SCHOOL BOARD OF PASCO COUNTY
PURCHASING DEPARTMENT
20430 GATOR LANE LAND O' LAKES, FL 34638
PHONE: 813.794.2221 FAX: 813.794.2111

PURCHASE ORDER NUMBER
 12131

INVOICE IN TRIPLICATE
 INCLUDING THIS PURCHASE ORDER NUMBER TO:
 District School Board of Pasco County
 Accounts Payable
 7227 Land O Lakes Blvd
 Land O Lakes FL 34638
 Telephone 813/794-2290

A TAXPAYER IDENTIFICATION NUMBER CERTIFICATION FORM WITH THE VENDOR'S CURRENT EMPLOYER IDENTIFICATION NUMBER OR SOCIAL SECURITY NUMBER MUST BE ON FILE WITH THE PURCHASING DEPARTMENT OR THE PAYMENT WILL NOT BE ISSUED.

Reasonable cost changes may be permitted, provided they are not on a blanket purchase order, bid, quote or contracted item, but must not exceed 5% of the total order without prior approval in writing from the Purchasing Department. We reserve the right to retain any and all shipped merchandise and to deny payment for any charges that are contrary to an awarded contract of this or another governmental agency, or that are beyond the aforementioned 5%.

VENDOR
 MAINLINE INFORMATION SYST INC
 1700 SUMMIT LAKE DRIVE
 TALLAHASSEE FL 32311

SHIP TO F.O.B. DESTINATION
 Delivery to Building Five
 Information Services
 20422 Gator Lane
 Land O Lakes FL 34638

DATE PRINTED	ORDERED BY/DEPARTMENT	CLASS ITEM NO.	FEDERAL EMPLOYER ID NO.	SALES TAX EXEMPTION NO.
06/02/10	Ed Mutell for Building 5	20453	59-6000792	85-8013921275C-1

SEQ	DESCRIPTION	PCSB ITEM	QTY	UNIT	UNIT PRICE	EXTENDED AMOUNT
	Per attached Statements of Work (ONE BPI TAG - all items included in one unit) Per Florida Administrative Rule 6A-1.012 (14)					
	PASCO SCHOOL BOARD USE ONLY					
	378.9420.8410.0643.7400.0000					167,852.04
	* * ACCT TOTAL * *					167,852.04
	REQ NBR: 9420 00277 VNDR NBR: V0000022449					

INFORMATION ON REVERSE
 1 - VENDOR COPY

Kendra Brodman
 PURCHASING/AGENT/S/



Please note that prices are subject to change without notice.

Reg # 9420 - 277

COMPANY NAME: **Pasco County Schools**
 Name: **Ed Mutell**
 Address: **20430 Gator Lane**
 City, State Zip: **Land O'Lakes, FL 34639-2803**
 Phone: **813-794-2912**

Date: **27-May-10**
 Reference #: **85F47T-1-1**

QUANTITY	PART #	DESCRIPTION	NEW USED	UNIT PRICE	NET AMOUNT
1	8203-E4A	Power 6 Model 520 System -CBU Specify w/ 16GB Main Memory, 2 core 4.2GHz 63x139.5GB SAS Disk (8.757TB RAW), Ethernet 12 Month HW & SW Maintenance 30 User License, 1 Core i5/OS entitlement PowerVM, and 1 year maintenance	NEW	\$99,978.70	\$99,978.70
1	Power HA	HAS and SS1 Upgrades	NEW	\$8,984.50	\$8,984.50
1	7214-1U2	External DVD Enclosure	NEW	\$2,290.75	\$2,290.75
1	9406-520	Tape Adapter and Power Distribution	NEW	\$6,329.10	\$6,329.10
1	3573-L2U	LTO4 Fibre Tape Library	NEW	\$11,751.52	\$11,751.52
1	LIC PGM	IBM Licensed Programs 8203-E4A CBU	NEW	\$22,565.47	\$22,565.47
1	EDCARD	Education Card	NEW	\$0.00	\$0.00
1	IBM WSU 12	IBM Warranty Service Uplift 24x7 (12 months)	NEW	\$352.00	\$352.00
1	MPS	Mainline Professional Services	NEW	\$15,600.00	\$15,600.00

All freight charges are included in the quoted price Please note that prices are subject to change without notice. Prices valid until 6/27/2010.	SUBTOTAL	\$167,852.04
	TAX	\$0.00
	FREIGHT	\$0.00
	TOTAL	\$167,852.04

Prepared by Mainline Information Systems

Name: **Greg Spencer**
 Address: **2224 West End Avenue
 Lakeland, FL 33803**
 Phone: **863-683-8973**
 Fax: **888-235-3022**

gregory.spencer@mainline.com

APPROVED BY _____

05/27/2010
 DATE