

Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

2500 Jupiter Park Drive, Jupiter, Florida 33458-8964

Telephone (561) 747-5700 • Fax (561) 747-9929 • www.loxahatcheeriver.org



D. Albrey Arrington, Ph.D., Executive Director

To: D. Albrey Arrington, Ph.D., Executive Director

From: Bud Howard, Director of Information Services

Date: June 12, 2015

Re: Purchase - Server Infrastructure Replacement

Budget: 40-77-03-5640 Repair & Replacement

Server infrastructure provides vital computer services to the staff at the District including file storage, database hosting, and user access control. Our present servers are nearing end of life and we have scheduled them for replacement before warranties begin to expire in December 2016. We have worked with our IT consultant to select hardware and software components that will provide robust performance, simplify management, and accommodate future growth.

The hardware purchase includes:

- Cisco UCS Blade system with three server nodes
- EMC VNXe 3200 storage device with 8TB of usable capacity and solid state disk caching
- Cisco Catalyst 3850 10G Switches

The software purchase includes:

- VMWare VSphere 6 Virtual Machine Software
- Windows Server 2012 R2

The primary vendor for this purchase is CDW-G, a national reseller of computer equipment, under the District's membership in the National Joint Powers Alliance (NJPA) contract. Our research indicates this is the lowest contract pricing available.

We originally proposed to do this work in two phases and budgeted \$50,000 for Phase 1 during this fiscal year. But because of available funds in this budget cycle, and the benefits provided by this new hardware, we propose to complete this work in a single purchase.

We propose to repurpose our current server hardware for non-critical use and redundancy. Three of our 8+ year-old servers, providing these non-critical roles now, will be surplus as part of this replacement.

We offer the following suggested motion for Board Approval:

THAT THE DISTRICT GOVERNING BOARD authorizes purchase of server infrastructure from CDW-G, specified in quotes 15573555, 10071880778, 1BK9Z0V, and GCXP060 in the amount not to exceed \$75,000.

Gordon M. Boggie
Board Member

Dr. Matt H. Rostock
Board Member

Stephen B. Rockoff
Chairman

Harvey M. Silverman
Board Member

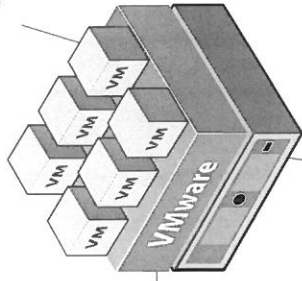
James D. Snyder
Board Member

Server Infrastructure Replacements

FY 2014-15

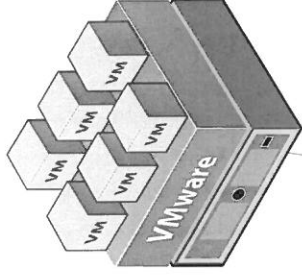
- Cisco UCS Mini Blade Servers
- 3 Node Cluster for High Availability and load balancing
- EMC VNXe3200 Hybrid Storage System
- 10 Windows Server 2012 Guest Virtual Machines
- Replacement Switches

Virtual Servers

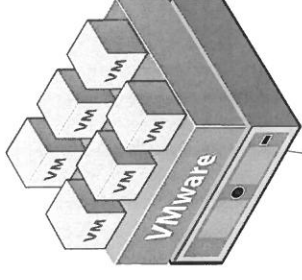


Virtual Machine Software

Hardware Node 1

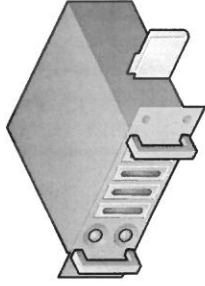


Hardware Node 2

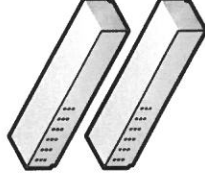


Hardware Node 3

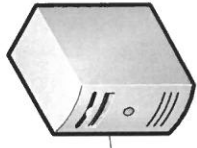
EMC Storage System



Replacement Switches



Physical Domain Controller
(Current Server - Repurposed)



CDW Government 230 North Milwaukee Ave. Vernon Hills, IL 60061 Phone: 847.371.5000	REQUISITION FORM	Date <u>June 10, 2015</u> WORK ORDER # _____
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SHIP TO:	<u>LRCD OPERATIONS</u> <u>2500 JUPITER PARK DRIVE</u> <u>JUPITER, FL 33458</u>	<input type="checkbox"/> PURCHASE IS FOR EXISTING WORK ORDER <input type="checkbox"/> WORK ORDER REQUIRED - NON-CAPITAL/R&R <input type="checkbox"/> WORK ORDER REQUIRED - CAPITAL/R&R
PURPOSE:	Purchase servers from NJPA 100614#CDW	

REQUESTED BY	DATE REQUIRED	CHARGE TO DEPT.	JOB NO.	APPROVED :	
Joe Chung	6/19/2015	see below		DISAPPROVED :	Date

QUANTITY	DESCRIPTION	PRICE	AMOUNT		Capital	Expense
1	UCS SP8 Chassis, Fabric Interconnect	\$10,302.25	\$10,302.25	C	10,302.25	-
3	B200M3 w/ 2xE52609B8x8GBVIC1240 Blade Servers	\$3,756.83	\$11,270.49	C	11,270.49	-
4	CISCO 8GBPS FC SW SFP+LC	\$156.00	\$624.00	C	624.00	-
1	Software and Hardware Support UCS Mini (See Services Section on quote)	\$3,105.90	\$3,105.90	E	-	3,105.90
2	Fiber Patch Cables C2G 7M LC/LC DPX 50/125 MM Fiber	\$25.00	\$50.00	C	50.00	-
4	Fiber Patch Cables C2G 3M LC/LC DPX 50/125 MM Fiber	\$23.00	\$92.00	C	92.00	-
1	VNXe3200 DPE 8TB Cap w/ 200GB Flash V328TB200GBHW	\$17,700.00	\$17,700.00	C	17,700.00	-
1	VNXe3200 SW 8TB Cap w/200GB Flash=IC 456-107-334	\$2,498.00	\$2,498.00	C	2,498.00	-
1	Remote Deploy Support PS-BAS-RSVXED	\$1,095.00	\$1,095.00	E	-	1,095.00
1	Enhanced SW Support M-ENHSWE-002	\$1,189.00	\$1,189.00	E	-	1,189.00
1	Enhanced HW Support- Warr UPG WU-ENHHE-02	\$1,150.00	\$1,150.00	E	-	1,150.00
2	ONE 4 Port 8GB Fibre Channel IO Module V32-8GFC	\$756.00	\$1,512.00	C	1,512.00	-
1	VMWARE VSPH 6 ESS + KIT 3 HOSTS Mfg#: VS6-ESP-KIT-C Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	\$4,268.00	\$4,268.00	C	4,268.00	-
1	VMWARE PSNS VSPH 6 ESS + KIT 1Y Mfg#: VS6-ESP-KIT-P-SSS-C Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	\$1,130.00	\$1,130.00	E	-	1,130.00
10	Windows Server	\$604.46	\$6,044.60	C	6,044.60	-
75	Windows user Client Access Licenses (CALs)	\$23.03	\$1,727.25	C	1,727.25	-
	Cost Breakdown: Capital purchase of hardware Account 40-77-03-5640 \$65,270.59 from CDWG and \$1,681.98 from Advantage Optics Expense hardware support, consulting and maintenance Account 50-10-5460 \$7482.90				-	-
		SUBTOTAL	\$63,758.49		56,088.59	7,669.90
		SHIPPING & HANDLING	\$0.00			
		TOTAL	\$63,758.49			

ORDERED FROM	P.O. NUMBER	DATE OF P.O.	DATE ORDERED	DATE RECEIVED
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CDW Government 230 North Milwaukee Ave. Vernon Hills, IL 60061 Phone: 847.371.5000		REQUISITION FORM			Date <u>June 10, 2015</u>
		WORK ORDER # _____			
SHIP TO:	<u>LRECD OPERATIONS</u> <u>2500 JUPITER PARK DRIVE</u> <u>JUPITER, FL 33458</u>		<input type="checkbox"/> PURCHASE IS FOR EXISTING WORK ORDER <input type="checkbox"/> WORK ORDER REQUIRED - NON-CAPITAL/R&R <input type="checkbox"/> WORK ORDER REQUIRED - CAPITAL/R&R		
PURPOSE:	Purchase servers from NJPA 100614#CDW				
REQUESTED BY: Joe Chung	DATE REQUIRED: 6/19/2015	CHARGE TO DEPT.: see below	JOB NO.:	APPROVED:	DISAPPROVED:
				_____ Date	_____ Date
QUANTITY	DESCRIPTION	PRICE	AMOUNT	Capital	Expense
2	Cisco Catalyst 3850 48 Port Data IP Base	\$3,055.00	\$6,110.00	C 6,110.00	-
2	SMARTNET 8X5XNBD Cisco Catalyst 3850 48 Port Data IP Base	\$183.30	\$366.60	E -	366.60
2	350W AC Config 1 SecondaryPower Supply	\$235.00	\$470.00	C 470.00	-
2	Cisco Catalyst 3850 4 x 10GE Network Module	\$1,175.00	\$2,350.00	C 2,350.00	-
4	Proline 10GBASE-CU SFP+ Cable 1 Meter	\$63.00	\$252.00	C 252.00	-
	Proline 10GBASE-LR SFP Module	\$675.00	\$0.00	C -	-
	Cost Breakdown: Capital purchase of hardware Account 40-77-03-5640 \$65,270.59 from CDWG and \$1,681.98 from Advantage Optics Expense hardware support, consulting and maintenance Account 50-10-5460 \$7482.90			-	-
		SUBTOTAL	\$9,548.60	9,182.00	366.60
		SHIPPING & HANDLING	\$0.00		
		TOTAL	\$9,548.60		
ORDERED FROM	P.O. NUMBER	DATE OF P.O.	DATE ORDERED	DATE RECEIVED	

Advantage Optics		REQUISITION FORM			Date <u>December 31, 2014</u>	
See attached quote					WORK ORDER # _____	
P. 630.548.9870		<input type="checkbox"/> PURCHASE IS FOR EXISTING WORK ORDER <input type="checkbox"/> WORK ORDER REQUIRED - NON-CAPITAL/R&R <input type="checkbox"/> WORK ORDER REQUIRED - CAPITAL/R&R				
SHIP TO:	<u>LRECD OPERATIONS</u>					
	<u>2500 JUPITER PARK DRIVE</u>					
	<u>JUPITER, FL 33458</u>					
PURPOSE:	Purchase 10G Optics for server network switches Price Comparison: Advantage Optics Direct \$280.33; Amazon \$489.13; \$733.15					
REQUESTED BY	DATE REQUIRED	CHARGE TO DEPT.	JOB NO.	APPROVED :		
Joe Chung		see below		DISAPPROVED :		Date
QUANTITY	DESCRIPTION			PRICE	AMOUNT	
6	10G LR SFP+, SMF, DOM, 1310nm, LC Connector, 10km, Cisco Compatible SFP-10G-LR			\$280.33	\$1,681.98	
	Cost Breakdown: Capital purchase of hardware Account 40-77-03-5640 \$65,270.59 from CDWG and \$1,681.98 from Advantage Optics Expense hardware support, consulting and maintenance Account 50-10-5460 \$7482.90					
				SUBTOTAL	\$1,681.98	
				SHIPPING & HANDLING	\$0.00	
				TOTAL	\$1,681.98	
ORDERED FROM	P.O. NUMBER	DATE OF P.O.	DATE ORDERED	DATE RECEIVED		



Cisco Mini SP8 Blade

Customer:	Loxahatchee River Environm	Account Manager:	Robert Sullivan	Qty date:	June 9, 2015
Address:	2500 Jupiter Park		CDW Account	Prep by:	Rob Sullivan
QUOTE #	Jupiter, FL 33458			Toll Free:	866-245-8105
Telephone:	567.747.5709	Quote:	15573555	Fax:	312-705-9495
				Email:	robesul@cdwg.com

QTY	PART NUMBER	DESCRIPTION	List Price	Unit Cost	Extended Cost	
Products						
1	UCS-SP8-M-B200-E	UCS SP8 B200 ENTRY 2x6324 1xCH 2xB200M3 w/2xE52609 v2	\$ -	\$ -	\$ -	
1	UCS-SP-MINI-AC2	(Not sold Standalone)UCS MINI SP 5108 Blade Svr AC2 Chassis	\$ 21,025.00	\$ 10,302.25	\$ 10,302.25	
4	CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	\$ -	\$ -	\$ -	
1	N01-UAC1	Single phase AC power module for UCS 5108	\$ -	\$ -	\$ -	
1	N20-CAK	Accessory kit for UCS 5108 Blade Server Chassis	\$ -	\$ -	\$ -	
8	N20-CBLKB1	Blade slot blanking panel for UCS 5108/single slot	\$ -	\$ -	\$ -	
8	N20-FAN5	Fan module for UCS 5108	\$ -	\$ -	\$ -	
1	N20-FW013	UCS Blade Server Chassis FW Package 3.0	\$ -	\$ -	\$ -	
1	UCSB-5108-PKG-HW	UCS 5108 Packaging for chassis with half width blades.	\$ -	\$ -	\$ -	
4	UCSB-PSU-2500ACDV	2500W Platinum AC Hot Plug Power Supply - DV	\$ -	\$ -	\$ -	
1	UCS-SP-FI-M-6324	(Not sold Standalone)UCS SP 6324 In-Chassis FI	\$ -	\$ -	\$ -	
1	UCS-C-TR-LIC	UCS Central Per UCS Domain License (Physical)	\$ -	\$ -	\$ -	
2	GLC-T	1000BASE-T SFP	\$ -	\$ -	\$ -	
2	SFP-10G-SR	10GBASE-SR SFP Module	\$ -	\$ -	\$ -	
1	UCS-SP-FI-M-6324	(Not sold Standalone)UCS SP 6324 In-Chassis FI	\$ -	\$ -	\$ -	
2	GLC-T	1000BASE-T SFP	\$ -	\$ -	\$ -	
2	SFP-10G-SR	10GBASE-SR SFP Module	\$ -	\$ -	\$ -	
3	UCS-SP7-SR-B200-E	(Not a standalone SKU) B200M3 w/ 2xE52609B8x8GBVIC1240	\$ 7,667.00	\$ 3,756.83	\$ 11,270.49	
4	UCS-CPU-E52609B	2.50 GHz E5-2609 v2/80W 4C/10MB Cache/DDR3 1333MHz	\$ -	\$ -	\$ -	
16	UCS-MR-1X082RZ-A	8GB DDR3-1866-MHz RDIMM/PC3-14900/dual rank/x4/1.5v	\$ -	\$ -	\$ -	
4	N20-BBLKD	UCS 2.5 inch HDD blanking panel	\$ -	\$ -	\$ -	
4	UCSB-HS-01-EP	CPU Heat Sink for UCS B200 M3 and B420 M3	\$ -	\$ -	\$ -	
2	UCSB-MLOM-40G-01	Cisco UCS VIC 1240 modular LOM for blade servers	\$ -	\$ -	\$ -	
2	UCS-M3-V2-LBL	Cisco M3 - v2 CPU asset tab ID label (Auto-Expand)	\$ -	\$ -	\$ -	
2	UCS-CPU-E52609B	2.50 GHz E5-2609 v2/80W 4C/10MB Cache/DDR3 1333MHz	\$ -	\$ -	\$ -	
8	UCS-MR-1X082RZ-A	8GB DDR3-1866-MHz RDIMM/PC3-14900/dual rank/x4/1.5v	\$ -	\$ -	\$ -	
2	N20-BBLKD	UCS 2.5 inch HDD blanking panel	\$ -	\$ -	\$ -	
2	UCSB-HS-01-EP	CPU Heat Sink for UCS B200 M3 and B420 M3	\$ -	\$ -	\$ -	
1	UCSB-MLOM-40G-01	Cisco UCS VIC 1240 modular LOM for blade servers	\$ -	\$ -	\$ -	
1	UCS-M3-V2-LBL	Cisco M3 - v2 CPU asset tab ID label (Auto-Expand)	\$ -	\$ -	\$ -	
4	DS-SFP-FC8G-SW=	CISCO 8GBPS FC SW SFP+LC SPARE	\$ 260.00	\$ 156.00	\$ 624.00	
					Hardware Total	\$ 22,196.74
Services						
1	CON-SNT-6508AC2S	SMARTNET 8X5XNBD UCS MINI SP 5108 Blade Svr AC2 Chassis	\$ 82.00	\$ 69.70	\$ 69.70	
1	CON-SNT-FIM6324S	SMARTNET 8X5XNBD UCS SP 6324 In-Chassis FI	\$ 256.00	\$ 217.60	\$ 217.60	
1	CON-SAU-UCSMGRAS	SW APP SUPP + UPGR UCS Central Per UCS Domain Lic-Phy	\$ 2,400.00	\$ 2,040.00	\$ 2,040.00	
1	CON-SNT-FIM6324S	SMARTNET 8X5XNBD UCS SP 6324 In-Chassis FI	\$ 256.00	\$ 217.60	\$ 217.60	
3	CON-SNT-SP7B200E	SMARTNET 8X5XNBD TBD	\$ 220.00	\$ 187.00	\$ 561.00	
1	CON-SNT-EZ7B200E	SMARTNET 8X5XNBD TBD	\$ 220.00	\$ 187.00	\$ 187.00	
					Services Total	\$ 3,105.90
					UCS Total	\$ 25,302.64
Cabling						
2	33033	C2G 7M LC/LC DPX 50/125 MM Fiber	\$ 32.00	\$ 25.00	\$ 50.00	
4	33029	C2G 3M LC/LC DPX 50/125 MM Fiber	\$ 27.00	\$ 23.00	\$ 92.00	
					Network Total	\$ 142.00

QTY	PART NUMBER	DESCRIPTION	List Price	Unit Cost	Extended Cost	
2	WS-C3850-24T-S	Cisco Catalyst 3850 24 Port Data IP Base	\$ 6,500.00	\$ 3,055.00	\$ 6,110.00	
2	CON-SNT-WSC384TS	SMARTNET 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base	\$ 390.00	\$ 183.30	\$ 366.60	
4	CAB-TA-NA	North America AC Type A Power Cable	\$ -	\$ -	\$ -	
2	PWR-C1-350WAC/2	350W AC Config 1 SecondaryPower Supply	\$ 500.00	\$ 235.00	\$ 470.00	
2	C3850-NM-2-10G	Cisco Catalyst 3850 2 x 10GE Network Module	\$ 2,500.00	\$ 1,175.00	\$ 2,350.00	
2	S3850UK9-32-OSE	CAT3850 UNIVERSAL	\$ -	\$ -	\$ -	
2	STACK-T1-50CM	50CM Type 1 Stacking Cable	\$ -	\$ -	\$ -	
2	CAB-SPWR-30CM	Catalyst 3750X and 3850 Stack Power Cable 30 CM	\$ -	\$ -	\$ -	
2	PWR-C1-350WAC	350W AC Config 1 Power Supply	\$ -	\$ -	\$ -	
4	SFP-H10GB-CU1M=Proline	10GBASE-CU SFP+ Cable 1 Meter	\$ 70.00	\$ 63.00	\$ 252.00	
6	LCSC083-10M-CDW	BELKIN 10M LC/SC OS1 8.3/125 FIBER	\$ 33.00	\$ 29.50	\$ 177.00	
					Network Total	\$ 9,725.60

Grand Total \$ 35,170.24

Quote Notes: Contract NJPA 100614#CDW



6-June-2015

Rob Sullivan
866-245-8105

Prepared For
LOXAHATACHEE RIVER
ENVIROMENT
2500 JUPITER PARK DR
JUPITER, FL 33458
US

Reseller
CDW LOGISTICS
200 N MILWAUKEE AVEVERNON HILLS, IL 60061US

Quote: 1007180778

Qty	Model Number	Description	List (USD)	Unit Price (USD)	Extended Price (USD)
	Configuration Name	Loxhatatchee River Env- VNXe3200 Site 1			
	SYSTEM	PSI FOR VNX-E 3200			
1	V328TB200GBHW	VNXe3200 DPE 8TB Cap w/ 200GB Flash	\$ 34,840.00	\$ 17,700.00	\$ 17,700.00
1	456-107-334	VNXe3200 SW 8TB Cap w/200GB Flash=IC	\$ 4,880.00	\$ 2,498.00	\$ 2,498.00
1	PS-BAS-RSVXED	REMOTE DEPLOY SUPPORT FOR VNXE UNIFIED	\$ 1,250.00	\$ 1,095.00	\$ 1,095.00
1	M-ENHSWE-002	ENHANCED SW SUPPORT	\$ 2,342.00	\$ 1,189.00	\$ 1,189.00
1	WU-ENHWE-02	ENHANCED HW SUPPORT-WARR UPG	\$ 2,258.00	\$ 1,150.00	\$ 1,150.00
2	V32-8GFC	ONE 4 Port 8GB Fibre Channel IO Module	\$ 1,400.00	\$ 756.00	\$ 1,512.00
					\$ 25,144.00

Freight Total (USD)	TBD
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Total Price (USD)	\$ 25,144.00
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Notes

Notes:
Total Price is inclusive of Freight Charges (where applicable). Additional freight charges will be invoiced by EMC if expedited shipping is requested.



SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
1BK9Z0V	11468051	6/9/2015

BILL TO:
 JOE CHUNG
 2500 JUPITER DR

SHIP TO:
 LOXAHATCHEE RIVER
 ENVIRONMENTAL CON
 Attention To: ATTN:JOE CHUNG
 2500 JUPITER PARK DRIVE

Accounts Payable
 JUPITER , FL 33458

JUPITER , FL 33458
 Contact: JOE CHUNG 561.747.5709

Customer Phone #561.747.5709

Customer P.O. # SERVER 2012 QUOTE

ACCOUNT MANAGER		SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
ROB SULLIVAN 866.245.8105		ELECTRONIC DISTRIBUTION	Request Terms	GOVT-EXEMPT
QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10	3178328	MS GSA WIN SRV STD 2012 R2 2PROC Mfg#: P73-06309 Contract: CDW-G GSA Schedule GS-35F-0195J	604.46	6,044.60
75	2802824	Electronic distribution - NO MEDIA MS GSA WIN SRV UCAL 2012 Mfg#: R18-04302 Contract: CDW-G GSA Schedule GS-35F-0195J Electronic distribution - NO MEDIA	23.03	1,727.25
-----SPECIAL INSTRUCTIONS----- Beginning of customer text: Separating CALs from Server End of customer text.				
SUBTOTAL				7,771.85
FREIGHT				0.00
TAX				0.00

US Currency

TOTAL 7,771.85

CDW Government
 230 North Milwaukee Ave.
 Vernon Hills, IL 60061

Fax: 312.705.9405

Please remit payment to:
 CDW Government
 75 Remittance Drive
 Suite 1515
 Chicago, IL 60675-1515



SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GCXP060	3768218	4/27/2015

BILL TO:
 LOXAHATCHEE RIVER ENVIRON
 2500 JUPITER PARK DR

SHIP TO:
 LOXAHATCHEE RIVER ENVIRON
 Attention To: JOE CHUNG
 2500 JUPITER PARK DR

Accounts Payable
 JUPITER , FL 33458-8964

JUPITER , FL 33458-8964
 Contact: JOE CHUNG 561.747.5709

Customer Phone #561.747.5709

Customer P.O. # ESSENTIALS PLUS KIT
 QUOTE

ACCOUNT MANAGER		SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
ROB SULLIVAN 866.245.8105		ELECTRONIC DISTRIBUTION	Net 30 Days-Govt State/Local	GOVT-EXEMPT
QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	3645597	VMWARE VSPH 6 ESS + KIT 3 HOSTS Mfg#: VS6-ESP-KIT-C Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	4,268.00	4,268.00
1	3645601	Electronic distribution - NO MEDIA VMWARE PSNS VSPH 6 ESS + KIT 1Y Mfg#: VS6-ESP-KIT-P-SSS-C Contract: NJPA 100614#CDW Technology Catalog 100614#CDW 1 Year Option Electronic distribution - NO MEDIA	1,130.00	1,130.00
SUBTOTAL				5,398.00
FREIGHT				0.00
TAX				0.00
				US Currency
TOTAL				5,398.00

CDW Government
 230 North Milwaukee Ave.
 Vernon Hills, IL 60061

Fax: 312.705.9405

Please remit payment to:
 CDW Government
 75 Remittance Drive
 Suite 1515
 Chicago, IL 60675-1515

ao Advantage Optics

1555 Bond Street, Naperville, IL 60563

P: 630.548-9870 F: 630.548-9873

www.advantageoptics.com

Sourcing Quote # 9965060815

Contact Name: Joe Chung

Company Name: Loxahatchee River District

Company Phone: (561) 747-5709

Email Address: joe@loxahatcheeriver.org

Issue Date: June 8, 2015

Part Number	Description	Discount Price	Quantity	Total
SFP-10G-LR	10G LR SFP+, SMF, DOM, 1310nm, LC Connector, 10km, Cisco Compatible	\$ 280.33	6	\$ 1,681.98
	UPS Ground -- Continental US			NC
	TOTAL		6	\$ 1,681.98

Note:

1. All transceivers are factory new with a 3 year factory warranty.
2. All transceivers quoted are IEEE 802.3 compliant Cisco Compatible.
3. All price quotes & agreements are in USD.
4. All quotes are valid for 120 days from the issue date.

Additional Questions:

Advantage Optics, Inc.
sales@advantageoptics.com
P:(630) 548.9870
F:(630) 548-9873

Home > About Us



About Us

History & Authority

FAQs

About Us

NJPA's cooperative contract purchasing leverages the national purchasing power of more than 50,000 member agencies while also streamlining the required purchasing process. As a municipal national contracting agency, NJPA establishes and provides nationally leveraged and competitively solicited purchasing contracts under the guidance of the Uniform Municipal Contracting Law. Joint Powers laws enable members to legally purchase through our awarded contracts.



We offer our Members [contract purchasing solutions](#) that are leveraged nationally to enable contracted suppliers and member agencies to work smarter and more efficient as they do business with each other. NJPA does this by establishing a business and service alliance between member buyers and contracted suppliers ensuring a valued and successful national cooperative contract program. Download our [About Us brochure](#) to learn more about our joint powers authority.

Locally in Minnesota, NJPA is one of 9 [Minnesota Service Cooperatives](#) that offers [regional focused programs](#) for our government and education members that comprise an area known as "Region 5." We successfully aid our local members in the planning, development and provision of [valued services](#) in a vast array of fields.

Our Vision: The National Joint Powers Alliance provides member-centered solutions that enable Government, Education, and Non-Profit agencies to work more efficiently and leverages its resources to effectively re-invest in the communities we serve as an invaluable Service Cooperative partner.

Our Mission: To build valued relationships, deliver innovative solutions with integrity, and exceed the expectations of our members.

Marketing Publications



•• View Publications ••

Testimonials



•• View Testimonials ••

Recent News

- News Update - Newly Awarded Contracts!
- Q1 2013 Newsletter




Official

CERTIFICATE OF MEMBERSHIP

Loxahatchee River District

Member # 19028

This certificate entitles the entity named above the opportunity to purchase off of nationally, competitively bid contracts. The entity will save time by using pre-bid contracts, save money by leveraged volume pricing and obtain quality products from nationally acclaimed vendors.


Duff Erholtz, Membership Manager



Competitively Bid National Cooperative Contract Solutions