

**STATE OF CONNECTICUT
OFFICE OF THE STATE COMPTROLLER**

**POWER DISTRIBUTION AND CONDITIONING UNIT
REQUEST FOR INFORMATION**

QUESTIONS AND ANSWERS

To be posted no later than June 14, 2010, per RFI

QUESTION

1. Is an electrical single-line drawing/diagram available for the data center?

ANSWER

1. No

QUESTION

2. Distribution Panels: The RFI states that the PDU is to contain (1) 400A distribution panel and (4) 200A sub panels. Is the 400A distribution panel simply a 400A output breaker on the 208V/120V secondary (output) side (5th) panel board on the PDU system?

ANSWER

2. The current PDU contains a 400A breaker and four 200A sub-panels. The new PDU does not have to necessarily match the current configuration, but does need to meet the power requirements for all equipment on Exhibit A as stated in the RFI.

QUESTION

3. Monitoring: Are there any specifications on what AC power components need to be monitored at the PDU (e.g. input power, output power, etc.)?

ANSWER

3. The new PDU should be equipped to monitor itself and display input/output power and be equipped to alert staff in the event of a malfunction. We do not have any equipment that need to be individually monitored.

State of Connecticut
Office of the State Comptroller
Request for Information
For a
Power Distribution & Conditioning Unit (PDU)

Issue Date:

May 18, 2010

Physical Inspection Cut-Off Date:

June 4, 2010 1:00 pm

Vendor Questions Cut-Off Date:

June 7, 2010 1:00 pm

Question and Answer Publish Date:

No later than June 14, 2010 1:00 pm

RFI Response Due Date:

June 21, 2010, 1:00 pm

Issued by:

State of Connecticut
Office of the State Comptroller
55 Elm St.
Hartford, CT 06106

1. Requirements and Deadlines for Inspections, Questions and Responses

This Request for Information (RFI) outlines the information being solicited from vendors and includes guidelines for content and format of responses. From this RFI's issuance date of May 18, 2010, vendors choosing to respond will be required to physically inspect the existing current hardware and equipment located in the OSC Data Center and will be given time to respond with questions prior to submitting their completed written responses.

Inspections:

All inspections will be conducted between May 18, 2010 and June 4, 2010. Appointments for the required inspection must be made using electronic mail and addressed to: Osc.rfp@po.state.ct.us

Questions:

All questions must be in written form, submitted using electronic mail and addressed to: Osc.rfp@po.state.ct.us

Written questions must be submitted no later than 1:00 PM Eastern Daylight Time on June 7, 2010

Questions and answers will be published no later than 1:00 pm on June 14, 2010 on the OSC website <http://www.osc.state.ct.us/vendor/>

Responses:

All RFI Responses are due June 21, 2010, no later than 1:00 PM Eastern Daylight Time

The postal address for RFI responses is:

State of Connecticut
Office of the State Comptroller
Business Services Office
Attn: Sarah Ormerod
55 Elm St.
Hartford, CT 06106

Vendors desiring to respond to this RFI must do so in writing, providing one original and one copy of the submitted response. All vendors responding to the RFI must provide contact information (name of contact, title, phone number, email, address). Responses will be reviewed by the agency and, depending on the results of that review, additional information or product/service demonstrations may be requested. Late responses may or may not be considered, and it will be up to the Comptroller's Office discretion to accept or reject late responses.

No contract will result directly from this RFI. Following the review of submitted information, the Comptroller's Office (OSC) will determine the best course of action. If OSC determines that a Power Distribution and Conditioning Unit (PDU) is to be procured, an Invitation to Bid (ITB) may be issued. This RFI process is intended to help OSC research a variety of available products and services so that OSC can determine the best strategy for the Office of the State Comptroller.

2. Freedom of Information Act

Due regard will be given for the protection of proprietary information contained in all proposals received; however, vendors should be aware that all materials associated with the procurement are subject to the terms of the Freedom of Information Act (FOIA) and all rules, regulations and interpretations resulting therefrom. It will not be sufficient for vendors to merely state in general terms that the proposal is proprietary in nature and, therefore, not subject to release to third parties. Any proposal that makes such a general or overarching claim may be subject to disqualification. **Those particular sentences, paragraphs, pages or sections which a vendor believes to be exempt from disclosure under the Act must be specifically identified as such.**

3. General Systems Requirements

The following describes the requirements for a complete power conditioning and distribution system, supplying computer-grade power to sensitive loads. The specified system shall provide isolation, regulation, noise and transient suppression, distribution, control, and monitoring of AC power. It shall include all equipment to properly interface the AC power source to the intended load.

The Comptrollers Data Center is currently supported by a Liebert Data Wave Model SCC-125C serial number 143391A power distribution and conditioning unit. The unit consists of a 480VAC primary to 208/120VAC step-down transformer and (4) 225A panels. The Data Center has shifted from mainframe computers to individual servers and a high-speed Xerox printer, and other sensitive computer hardware. This change has substantially lowered the total power load in the Data Center. The new PDU will replace the current equipment.

- (1) 225kVA, 480VAC to 208/120VAC, K13 Transformer.
- (1) 400A, 208/120VAC distribution panel.
- (4) 200A, 208/120VAC sub-panels.

Factors to be reviewed include:

- Estimated cost for new equipment.
- Estimated cost for installation of new equipment.

- Estimated cost for removal and destruction of old equipment.
- Experience and capabilities of the provider
- Technical capabilities of the new PDU.
- Timeframe to implement the new PDU.
- How work will be done to minimize impact on the Data Center.

4. Responses to RFI

4.1 Scope of RFI

Responses to this RFI will be used by OSC to assess the viability of various alternatives. No contract will result directly from the RFI process. The responses to this RFI may be used to determine whether an RFP should be issued to consider alternatives to the existing PDU.

4.2 Quality of Responses

Well-organized and concise responses are encouraged in order to facilitate the State's assessment.

4.3 Product and Service Availability

The State expects that the system and services described in response to this request for information are generally available as of the date that responses are due. Responders must explain any exceptions.

5. References: Existing Customers

The respondent must provide at least three references similar in size to the scope of the work being proposed. For each reference, provide:

- The reference organization's name
- Contact person name
- Address
- Telephone number
- Electronic mail address
- A brief description of the equipment provided by the respondent.

6. Exhibit A (3 pages)

Attached list of current hardware and equipment located in the OSC Data Center.

EXHIBIT A

CURRENT HARDWARE AND EQUIPMENT LOCATED IN THE OSC DATA CENTER

CPU	5 A	115-230 V
CPU	5 A	115-230 V
CPU	5 A	115-230 V
CPU	5 A	115-230 V
LaserJet 4	7.8 A	100-120 V
4635MX Xerox Printer	40 A	120-208-240 V
Sun Controller	30 A	100-120; 224-240 V (0.3 K VA)
Emergency Light	2 A	
Emergency Light	2 A	
Miscellaneous	2 A	

				Power	
	Model	VA	Ampage	Cords	Voltage
MSA1000		1347	12.2	2	110
IBM Storage	EXP300	514	4.7	2	110
OSCWOLF	dl580-G2	880	8.0	1	110
OSCQUIL	dl580	1760	16.0	2	110
OSC-LINUX	dl580-G2	880	8.0	1	110
UPS	3000	2800	12.7	1	220
OSCI	3000	729	6.6	1	110
OSCD5	3000	729	6.6	1	110
OSCXEN	DL580-g5	2086	19.0	2	110
OSCSMP	dl530	928	9.3	2	100
Dell 6850		2816	12.8	2	220
Dell 6850		2816	12.8	2	220
Sub total		18285	128.7	19	1640

<i>Switches</i>				Power	
	Model	VA	Ampage	Cords	Voltage
HP 4108		1503	13.7	1	110
HP 2524		250	2.3	1	110
HP 1900		250	2.3	1	110
HP 1900		250	2.3	1	110
HP 2512		250	2.3	1	110
Cisco 2600		250	2.3	1	110
HPTFT7600		41	0.4	1	110
OliCom		105	1.0	1	110
SmartCAU		100	0.9	1	110
Cabletron		1872	17.0	2	110
Enterasys		90	0.8	1	110
Autoloader		250	2.3	1	110
Modems	2	234	2.1	2	110
Sub total		5445	49.5	15	1430

				Power	
	Model	VA	Ampage	Cords	Voltage
	OSCREMOTE2	500	4.5	1	110
	Dell 745	1500	13.6	3	110
	OSCNMS	750	6.8	1	110
	ICHAIN	750	6.8	1	110
	Dell GX 150	500	4.5	2	110
	OSCREMOTE2	500	4.5	1	110
	Dell GX 280	2500	22.7	5	110
	HP 2512	250	2.3	1	110
	Telephone PC	500	4.5	1	110
	Gateway				
	Monitor	15	0.1	1	110
	Dell GX 110	1000	9.1	2	110
	Sub total	8765	79.7	19.0	1210.0

				Power	
	Model	VA	Ampage	Cords	Voltage
Dell Monitors	6	9.6	0.1	6	110
Dell CRT	3	20	0.2	3	110
KVM switch	2	3	0.0	2	110
repair station	1	500	4.5	1	110
APC Smart					
UPS	1400	1400	12.7	1	110
APC Smart					
1500	1500	1500	13.6	1	110
Sub total		3433	31.2	14	660

Grand Total	<u>35928</u>	<u>289.1</u>	<u>67</u>	<u>4940</u>
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UPS #1 – APC Smart UPS 3000 Rack Mounted Uninterruptible Power Supply, Hubbell Type Plug, 20 amp Circuit

UPS #2 – APC Smart UPS 2200 Uninterruptible Power Supply (Tower Style, Black), 20 Amp Circuit

UPS #3 - APC Smart UPS 2200 Uninterruptible Power Supply (Tower Style, White), 15 Amp Circuit

UPS #4 – APC Smart UPS 1500 Uninterruptible Power Supply (Tower Style, Black), 15 Amp Circuit

UPS #5 – APC Smart UPS 1000 Uninterruptible Power Supply (Tower Style, Black), 15 Amp Circuit

CABLE # ON PATCH PANEL	DEVICE		DELL SERVICE TAG	CONNECTED TO WHICH UPS
1	MD3000 ARRAY UNIT #1		2PMQGD1	#1
2	NX1950 STORAGE SERVER	159.247.37.129	3YL8GD1	#1
3	NX1950 STORAGE SERVER	159.247.37.143		#1
4	NX1950 STORAGE SERVER	159.247.37.188		#2
5	IMAGESTORE-PROD	159.247.37.133		#1
6	IMAGESTORE-PROD	159.247.37.137		#1
7	MD3000 ARRAY UNIT #0		2PMQGD1 (SAME AS 1)	#1
8	NX1950 STORAGE SERVER	159.247.37.134		#1
9	KODAK-I55 SCANNER			#3
10	IMAGESTORE-PROD	159.247.37.137		#1
11				
12				
13	TAPE-LIBRARY	159.247.37.131	B9YCQD1	#1
14	IMAGESTORE-PROD VEC-SERVER (W2003- SERVER)	159.247.37.144		#3
15		159.247.37.188		#3
16	OSC-RBSD-SERVER2	159.247.37.141		#5
17	IMAGESTORE-DEV	159.247.37.142		#2
18	TERM-SERVER	159.247.37.140		#5
19				
20	OSC-RBSD-SERVER1	159.247.185.43		#5
21				
22	IMAGESTORE-DEV	159.247.185.165		#2