

MEETING DATE: 1/25/10

AGENDA ITEM: Authorization to Enter into an Agreement with North America Power Partners for a Demand Response Program Pertaining to Electrical Usage at City Owned Facilities.

ATTACHMENTS

		<u>Pages</u>
1	Agreement/Proposal from NAPP	1
2	Preliminary Assessment	2-6

**Amendment to North America Power Partners
Demand Response Program Customer Agreement
General Terms and Conditions**

This Amendment dated _____ 2009 is made to the **North America Power Partners Demand Response Program Customer Agreement** made contemporaneously herewith and entered by and between North America Power Partners LLC ("NAPP"), a Delaware Limited Liability Company, with its main offices located at 307 Fellowship Road, Mount Laurel, New Jersey 08054 and City of Culver City ("Culver City"), a municipality located in Culver City, California.

WHEREAS, Culver City and NAPP agreed to enter into an Demand Response Program Agreement ("the Agreement"); and

WHEREAS, Culver City and NAPP have agreed to amend certain paragraphs of the General Terms and Conditions of the Agreement;

NOW, THEREFORE, in consideration of the promises contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, NAPP and Culver City do hereby covenant and agree as follows:

1. The Agreement shall not automatically renew at the end of the term. At the end of the term, and until March 1, 2013, before entering into an agreement with any other Demand Response Services Provider Culver City shall provide NAPP with a copy of the material terms of a proposed agreement to allow NAPP an opportunity match or beat such terms, which Culver City may accept or reject. In no event, however, shall Culver City be obligated to extend its agreement with NAPP after the end of the term, notwithstanding NAPP's ability to match or beat the other Demand Services Provider's proposed agreement.
2. In the event the Property does not have a Qualifying Meter System, Customer agrees to pay NAPP 50% of the total costs for new metering equipment, demand contacts, any associated communications devices, and installation charges, necessary to participate in a Demand Response Program. The Customer cost shall not exceed \$2,250 per Qualifying Meter System. Any Qualified Metering System installed by NAPP shall remain the property of NAPP.
3. The Agreement and this Amendment shall be governed and construed in accordance with the laws of the State of California, without regard to the conflict of law principles thereof.
4. Reaffirmation: Except as modified herein, the Parties hereto expressly reaffirm the terms and conditions of the Agreement, which remain in full force and effect. Where the terms of this Amendment conflict with the Terms of the Agreement, this Amendment shall govern.

Accepted and Agreed to:

City of Culver City

North American Power Partners LLC

By: _____

Signature of Authorized Party

Signature of Authorized Party

Name (Print)

Name (Print)

Title (Print)

Title (Print)

Date

Date

26428 Smoketree Lane
San Juan Capistrano, CA 92675
Telephone: 949/276-2464

BRINTON ASSOCIATES, INC.
ELECTRICAL ENGINEERING CONSULTANTS

E-mail: joan@brintonassociatesinc.com
<http://www.brintonassociatesinc.com>

North America Power Partners, LLC
307 Fellowship Road, Suite #116
Mount Laurel, NJ. 08054

June 19th, 2009
BAI Job # 02-09-061

DEMAND RESPONSE "PRELIMINARY" ASSESMENT

Attention: Mr. Cam Paulson
Director Energy Technology

Project: *The City of Culver City*
9770 Culver Blvd.
Culver City, California 90232

Dear Cam :

Based on our site evaluation conducted in May of 2009 with Ron Randle (NAPP) and Mr. Heustace Lewis Maintenance Operations Manager. We have determined that there are approximately (201) points of control (POC) an average of 28 per facility and 377.8 KW of qualifying DEMAND RESPONSE.
Following is the "preliminary" break-down of Demand Response measures and a description of how they may be "Automated" for each metered service :

City Hall
9770 Culver Boulevard
Culver City, California, 90232

Service Description : The exiting service is 2,500 amp - 480/277 Volt, 3 phase, 4 wire - 65,000 A.I.C.

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-1 MCC-1	Curtail Compressor # 2 (1/2 of A/C-1)	Installation of an 80 amp 3 pole contactor Tied into existing EMS	1	62.7

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-2 MCC-2	Curtail Compressor # 2 (1/2 of A/C-2)	Installation of an 80 amp 3 pole contactor Tied into existing EMS	1	57.7

Measure 3 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-3 MCC-3	Curtail Compressor # 2 (1/2 of A/C-1)	Installation of an 60 amp 3 pole contactor Tied into existing EMS	1	37.8

Measure 4 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Curtail Lighting 1st, 2nd and 3rd Floors by 1/3rd Turn off Center Lamps of all 2 x 2 Fluorescents and turn off all incandescents	Installation of Wireless (bluetooth) switches on a SB controls	Approx. 60 poc's	43.0

The City of Culver City
DEMAND RESPONSE "PRELIMINARY" ASSESMENT
Continued:

Culver City Senior Center
4095 Overland Avenue
Culver City, California, 90232

Service Description : The exiting service is 1,600 amp - 120/208 Volt, 3 phase, 4 wire

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-1	Curtail A/C-1 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	5.6

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-2	Curtail A/C-2 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	9.5

Measure 3 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-3	Curtail A/C-3 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	5.6

Measure 4 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-4	Curtail A/C-4 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	5.6

Measure 5 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-7	Curtail A/C-7 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	9.5

Measure 6 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-9	Curtail A/C-9 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	7.6

Measure 7 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-11	Curtail A/C-11 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	7.6

Measure 8 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-13	Curtail A/C-13 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	9.5

The City of Culver City
DEMAND RESPONSE "PRELIMINARY" ASSESMENT
Continued:

Culver City Senior Center, continued

Measure 9 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC, A/C-15	Curtail A/C-15 4 hours	Installation of an I/O computer control Tied into existing HVAC - EMS	1	11.2

Measure 10 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Curtail Lighting	Installation of an	1	14.3
Curtailment by 30%	Fixture types "FA", "FP" "FE", "DA" "DB", "DD" "TA" and "WA"	I/O computer control Tied into existing lighting - EMS		

Culver City Transportation Center

~~9505 Jefferson Blvd,~~ *4343 Dequense*
 Culver City, California, 90232

Service Description : The exiting service is 1,600 amp - 120/208 Volt, 3 phase, 4 wire

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	1st Floor	Installation of	20	1.5
Curtailment by 30%	Lighting 30% Curtailment	Wireless (bluetooth) Switches on SB		

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	2nd Floor	Installation of	30	3.0
Curtailment by 30%	Lighting 30% Curtailment	Wireless (bluetooth) Switches on SB.		

Measure 3 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Shop Area	Installation of	3	4.65
Curtailment 30%	Lighting (10) H.L.D's	Relay Controller		

Measure 4 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Shop Area	Installation of	1	1.2
Curtailment 30%	Lighting Fluorescents	Relay Controller		

Culver City Fire Station No. 1

City of Culver City
 Fire Department
 Culver City, California, 90232

Service Description : The exiting service is 800 amp - 120/208 Volt, 3 phase, 4 wire

The City of Culver City
DEMAND RESPONSE "PRELIMINARY" ASSESMENT
 Continued:

Culver City Fire Station No. 1, continued

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	1st Floor	Installation of	8	3.0
Curtailment by 30%	Lighting 30% Curtailment	Wireless (bluetooth) Switches on SB		

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	2nds Floor	Installation of	8	3.0
Curtailment by 30%	Lighting 30% Curtailment	Wireless (bluetooth) Switches on SB		

Measure 3 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Condensing Units # 3, 4 and 6	Curtailment of Condensing Units CU-3,4 and 6	Installation of 3 pole 240 volt Contactors	3	23.7

Culver City Police Department

4040 Duquesne Avenue
 Culver City, California, 90232

Service Description : The exiting service is 600 amp - 120/208 Volt, 3 phase, 4 wire

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Lighting	Installation of	50	8.0
Curtailment by 30%	30% Curtailment	Wireless (bluetooth) Switches on SB		

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC unit # 1	Curtailment of HVAC Unit A/C-1	Installation of 3 pole 240 volt Contactor	1	18.6

Culver City Vets/Youth Community Center

Culver City, California, 90232

Service Description : The exiting service is 400 amp - 120/208 Volt, 3 phase, 4 wire.

Measure 1 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
Lighting	Lighting	Installation of	1	9.0
Curtailment 30%	Curtailment 30%	Relay Controller		

Measure 2 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC unit # 1	Curtailment of HVAC Unit A/C-1	Installation of 3 pole 240 volt Contactor	1	6.2

The City of Culver City
DEMAND RESPONSE "PRELIMINARY" ASSESMENT
Continued:

Culver City Vets/Youth Community Center, continued

Measure 3 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC unit # 3	Curtailement of HVAC Unit A/C-3	Installation of 3 pole 240 volt Contactor	1	5.4

Measure 4 :

<u>Description</u>	<u>Measure</u>	<u>Automation</u>	<u>(POC)</u>	<u>KW</u>
HVAC unit # 5	Curtailement of HVAC Unit A/C-5	Installation of 3 pole 240 volt Contactor	1	5.4

Culver City Yard/Administration Building
Culver City, California, 90232

Needs further site investigation.

General:

This is a "preliminary report" which does not include the Culver City Facilities building and Recreation Center. There may be other facilities which can be included in the Demand Response program. All meter numbers and facilities included must be investigated and their meter numbers submitted to SCE for qualification.

Add: PW Building
FS #2
New FS #3