



Sargent  
Electric  
Company

*We Prize Safety.*

2801 Liberty Avenue  
Pittsburgh, PA 15222  
(412) 391-0588

Thomas M. Novosel  
412-394-7637 Direct Dial

February 25, 2010

Via Email: (LPillar@Duqlight.Com)

Mr. Lee Pillar  
Duquesne Light Company  
2101 Beaver Ave.  
Pittsburgh, Pa. 15233

Subject: Wilmerding Substation

Dear Lee:

Per your request to perform the work at the above referenced site we are pleased to submit a price of \$ 3,875.00

If you have any questions, please call me at 412-394-7637.

Regards,

A handwritten signature in black ink, appearing to read "Tom Novosel".

Thomas M. Novosel  
Wireless Program Manager

TMN: 02/25/10

DLC000108



**Duquesne Light**

Our Energy...Your Power™

PO Date

PO No.

Rev.

Page

28-FEB-10 4296-312

0 2 of 2

**BLANKET RELEASE**

SARGENT ELECTRIC CO.

Line	Item Number / Promised Description	Date	Qty	UOM	Unit Price	Extended Price
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Equipment Allowance Rates as per Vendor's proposal.

This Purchase Agreement shall be solely governed by the attached DLCo General Terms and Conditions Construction Services. All pre-printed terms and conditions contained on the reverse side of this Purchase Order shall not apply. Contractor's acknowledgment, commencement of performance, or any other conduct by Contractor indicating that this Purchase Agreement is in effect, shall constitute acceptance, by Contractor, of the above referenced terms and conditions, without exception. All additional or different terms provided by Contractor at anytime, including, but not limited to Contractor's proposal, acknowledgment, invoice or shipping papers is expressly rejected and shall not apply, without prior agreement and specifically incorporated by Company into this Purchase Agreement.

ANY PRODUCTS OR SERVICES PROVIDED UNDER ANY RESULTING PURCHASE AGREEMENT MAY BE SUBJECT TO SPECIFIC REQUIREMENTS RELATING TO THE YEAR 2000. PLEASE REFER TO THE ENCLOSED SUPPLEMENTAL TERMS AND CONDITIONS AND/OR THE ENCLOSED SPECIFICATION FOR ADDITIONAL DETAILS REGARDING THEIR REQUIREMENTS.

o SHIP TO: 05-APR-10	3,875.0000
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Address at top of page

Lee Pillar, N2-DOC, x8433

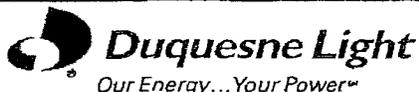
Sargent Electric Co. to perform work at Wilmerding SS as scoped by Lee Pillar and as quoted to Lee Pillar, February 25, 2010.

\$3,875.00

549.59.3971000.S.2118

Total:

3,875.00



PO Date                      PO No.                      Rev.                      Page  
 28-FEB-10                      404296-312                      0                      1 of 2

**BLANKET RELEASE**

Duquesne Light Company  
 Material Services / Purchasing NM-MS  
 2515 Preble Avenue  
 Pittsburgh, PA 15233-1009

Ship To:  
 See Below

Test Purchase Order

Supplier Address:  
 SARGENT ELECTRIC CO.  
 2801 LIBERTY AVENUE  
 PITTSBURGH, PA 15222-4794

Send Invoices in Duplicate to:  
 Duquesne Light Company  
 Accounts Payable Dept. 7-6  
 411 7th Avenue, PO Box 1920  
 Pittsburgh, PA 15230-1920

Payment Terms  
 NET 30

Carrier

FOB  
 Destination/FA

Buyer GARLICKI, PAUL R  
 Phone 4123938428  
 Fax

Effective From:                      To:

Line	Item Number / Description	Promised Date	Qty	UOM	Unit Price	Extended Price
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Acknowledgment -

1

Perform blanket Electrical Construction services as follows:

Furnish supervision, labor, tools, material and equipment to perform work including, but not limited to, erection of towers and poles for transmission/distribution lines, installation of static wires and associated equipment during the period January 24, 2000 through June 30, 2001 as requested by Richard J. Sikora, Manager of Major Projects.

Firm Compensation Rates in conjunction with Article I, of Exhibit B of Electrical Construction Specifications issued under RFQ 201591 are as follows:

Overhead @ 6.0% of Direct Straight Time Job Labor  
 Profit @ 7.0% of Direct Straight Time Job Labor  
 Small tools, etc @ 0.5% of Direct Straight Time Job Labor

Total of above 13.5 % of Direct Straight Time Job Labor  
 Taxes & Insurance @ 24.0% of Direct Straight Time Line Worker  
 Total Labor Burden @ 37.5%  
 Handling of Mat'l & Equipment @ 5.0%  
 Handling of Subcontracting @ 5.0%

Total:                      Continued



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Electric  
Company

*We Prize Safety™*

2801 Liberty Avenue  
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(412) 391-0588

Thomas M. Novosel  
412-394-7637 Direct Dial  
[tnovosel@sargent.com](mailto:tnovosel@sargent.com)

February 25, 2010

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Thomas M. Novosel  
Wireless Program Manager

TMN: 02/25/10

DLC000111

**VHF 220Mhz Project**  
**WILMERDING TOWER**  
**SCOPE OF WORK**

**Contractor is to climb tower using and adhering to all safety standards while work is preformed!**

- Install and secure 1 5/8 helliflex cable going from substation up tower.
- Install N type connectors on both ends of cable.
- Install and secure 220Mhz antenna.
- Install and secure jumper from antenna to helliflex.
- Sweep antenna and make sure it's within operating frequency.
- Supply Duquesne Light with a hard copy of Sweep.
- Duquesne Light Telecom Techs are to assist Contractor.
- Duquesne Light Telecom Techs are also to sweep Antenna and Supply the engineer with a hard copy of their sweep.
- Duquesne Light Telecom Techs are to install new 220Mhz Radio, making all power, antenna and fiber connections.
- Duquesne Light Telecom Techs are to bring old VHF base radio to Woods Run.

Lee W. Pillar

Communications Engineer/ supervisor

DUQUESNE LIGHT  
VHF 220MHz PROJECT  
WILMERDING TOWER

Please Quote On The Following

- 1 5/8 Helix cable	AVA7-50A	400 FEET
- 20' WG Ladder	CL-0620-U	13
- 1 5/8 Sureground	SG158-12B2U	4
- 1 5/8 N-Female Connector	AL7NF-PS	2
- 10PK 1 5/8 stackable hanger	WSSH-U158	10
- Weatherproofing kit	WK-U	6
- Hoist Grip	L7SGRIP	1
- Universal Angle Adapter	WS-AA-universal	8

Thank You  
Lee W. Pillar  
Communications Engineer

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# Coverage Area Maps

**220Mhz Spectrum**

Name Of Parent Site	Id	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Frequency	Receive Antenna Gain	Receive Antenna Height	Receive Misc System Loss	Receive Transmitter Line Length
Clinton	Cli_O	40	30	29	-80	18	18	220	6	170	0.5	200
Dravosburgh	Dra_O	40	22	30	-79	53	23	220	6	195	0.5	225
Hopewell	Hope_O	40	36	16	-80	14	38	220	6	263	0.5	293
Mt Washington	Wash_O	40	25	34	-80	0	13	220	6	135	0.5	165
North	Nor_O	40	32	32	-79	59	21	220	6	282	0.5	312
Plumb	Plumb	40	28	18	-79	43	25	220	6	180	0.5	210
Raccoon	Rac_O	40	38	25	-80	19	59	220	6	249	0.5	279
Shippingport	Shi_O	40	37	1	-80	26	22	220	6	259	0.5	289
Valley	Val_O	40	42	59	-80	17	40	220	6	199	0.5	229
Wilmerding	Wil_O	40	24	6	-79	48	49	220	6	262	0.5	292

**220Mhz Spectrum**

Name Of Parent Site	Receive Transmitter Line Loss	Receive Transmitter Line Type	Transmit Antenna Gain	Transmit Antenna Height	Transmit Max Transmitter Power Per Channel	Transmit Misc System Loss	Transmit Polarization	Transmit Transmitter Line Length	Transmit Transmitter Line Loss	Transmit Transmitter Line Type
Clinton	1.127362172	7/8" foam	6	170	10	0.5	vertical	200	1.127362172	7/8" foam
Dravosburgh	1.268282444	7/8" foam	6	195	10	0.5	vertical	225	1.268282444	7/8" foam
Hopewell	1.651585582	7/8" foam	6	263	10	0.5	vertical	293	1.651585582	7/8" foam
Mt Washington	0.930073792	7/8" foam	6	135	10	0.5	vertical	165	0.930073792	7/8" foam
North	1.758684989	7/8" foam	6	282	10	0.5	vertical	312	1.758684989	7/8" foam
Plumb	1.183730281	7/8" foam	6	180	10	0.5	vertical	210	1.183730281	7/8" foam
Raccoon	1.57267023	7/8" foam	6	249	10	0.5	vertical	279	1.57267023	7/8" foam
Shippingport	1.629038339	7/8" foam	6	259	10	0.5	vertical	289	1.629038339	7/8" foam
Valley	1.290829687	7/8" foam	6	199	10	0.5	vertical	229	1.290829687	7/8" foam
Wilmerding	1.645948771	7/8" foam	6	262	10	0.5	vertical	292	1.645948771	7/8" foam



EDX® SignalPro®: Duquesne - AMI -200 21AUG12

Prop. model 1: Anderson-2D v1.00  
 Time: 95.0% Loc.: 50.0%  
 Prediction Confidence Margin: 18.0dB  
 Climate: Continental Temperate  
 Land use (clutter): EDX .GCV format  
 Atmospheric Abs.: none  
 K Factor: 1.333

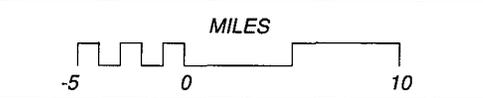
**Received Power at remote**

- █ = -68.0 dBmW
- █ = -88.0 dBmW 128 kbps Threshold
- █ = -97.0 dBmW 96 kbps Threshold
- █ = -104.0 dBmW 64 kbps Threshold
- █ = -111.0 dBmW 32 kbps Threshold
- █ < -111.0 dBmW

Display threshold level: -111.0 dBmW  
 RX Antenna - Type: ISOTROPIC  
 Height: 20.0 ft AGL Gain: 6.00 dBd

**Notes**

Radio: CalAmp Viper SC - 200 - Ch. BW 50KHz  
 Base Antenna 6dBd Omni



Duquesne Light Company  
 CalAmp Viper SC 200  
 Wed Aug 22 11:32:12 2012

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# Communications with MCLM

**Pillar, Lee W**

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**From:** David Warkentien [DWarkentien@CalAmp.com]  
**Sent:** Monday, January 25, 2010 9:47 AM  
**To:** Pillar, Lee W  
**Subject:** 220 MHz Spectrum Cost  
**Attachments:** Viper 50 khz 220 mhz.pdf

Lee,

Maritime Communications owns much of the 220 MHz spectrum in Western PA. Their budgetary quote for Allegheny and Beaver Counties is \$25,000 for each 50 KHz license pair.

50 KHz Viper works up to 128 Kbps.

If you need 9 simplex licenses, then five 50KHz channels should do, giving you 10 simplex frequencies.

Five channel pairs at \$25,000 per pair would cost around \$125,000. You would purchase these directly from Maritime Communications.

John Reardon (703-778-6555) is the contact at Maritime Comm.

Another negative for the 902-928 unlicensed radios, if operated in Mesh, would require omni antennas on all sites, making each site capable of receiving all ISM band noise in area.

Hope this helps,

Dave

Regional Sales Manager, Utilities

CalAmp

La Porte, IN

Office 219-369-4629

Mobile 219-380-7759

[dwarkentien@calamp.com](mailto:dwarkentien@calamp.com)

**Pillar, Lee W**

---

**From:** John Reardon [xreardon@earthlink.net]  
**Sent:** Tuesday, February 02, 2010 11:19 AM  
**To:** Pillar, Lee W  
**Subject:** MCLM

Dear Lee,

It was nice talking with you today. Please send me a list of the lats/longs for the 9 sites, and I will add that to the draft contract and send it to you.

Here is my contact information. We can get this done this week if you like.

We appreciate your business!

John

John Reardon  
CEO  
Maritime Communications/Land Mobile, LLC  
218 N. Lee Street, Suite 318  
Alexandria, VA 22314  
(703) 778-6555 office  
(703) 887-2109 cell  
(703) 548-4399 fax

**Pillar, Lee W**

---

**From:** John Reardon [xreardon@earthlink.net]  
**Sent:** Tuesday, February 02, 2010 1:45 PM  
**To:** Pillar, Lee W  
**Subject:** Re: MCLM

Thanks Lee. I see six sites, are there nine? Just want to be sure.

John

On 2/2/10 1:38 PM, "Pillar, Lee W" <LPillar@duqlight.com> wrote:

John

Here are the lat's and lon

Hopewell 40-36-16 80-14-38

Valley 40-42-59 80-17-40

Shippingport 40-37-01 80-26-22

Raccoon 40-38-25 80-19-59

North 40-32-32 79-59-21

Clinton 40-30-29 N 80-18- 18W

Thanks lee

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John

Sorry

Plumb 40-28-18 79-43-25  
Wilmerding 40-24-06 79-48-49  
Mt. Washington 40-25-34 80-00-13  
Dravosburgh 40-22-30 79-53-23

Total of 10

Thanks  
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## Pillar, Lee W

---

**From:** John Reardon [xreardon@earthlink.net]  
**Sent:** Wednesday, February 03, 2010 10:19 AM  
**To:** Pillar, Lee W  
**Subject:** Re: MCLM

Dear Lee,

I hope you are doing well. We got 3 inches of snow here last night, kids are out of school today! Does not take much for Virginia schools to panic.

We plotted your sites, thanks for the list. The Plumb site is very near the edge of Westmoreland County and I am not sure that site will work for us, since it may put RF into the next county. Do you have the antenna height and power output for that site?

Is there an alternative that is further from the county border?

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## Pillar, Lee W

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**From:** John Reardon [xreardon@earthlink.net]  
**Sent:** Wednesday, February 03, 2010 10:39 AM  
**To:** Pillar, Lee W  
**Subject:** Re: MCLM

Thanks Lee. We will look at it closely.

In the meantime, how would you keep the RF from getting into Westmoreland County from that site? Is there anything as an alternative to Plumb?

On 2/3/10 10:22 AM, "Pillar, Lee W" <[LPillar@duqlight.com](mailto:LPillar@duqlight.com)> wrote:

John

Site	Latitude	Longitude	GND-ELV	Height	Top El
------	----------	-----------	---------	--------	--------

Plumb	40-28-18	79-43-25	1195FT	180FT	54.9 1375FT
-------	----------	----------	--------	-------	-------------

Thanks  
Lee

**From:** John Reardon [<mailto:xreardon@earthlink.net>]  
**Sent:** Wednesday, February 03, 2010 10:19 AM  
**To:** Pillar, Lee W  
**Subject:** Re: MCLM

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**Pillar, Lee W**

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**From:** John Reardon [xreardon@earthlink.net]  
**Sent:** Wednesday, February 03, 2010 11:31 AM  
**To:** Pillar, Lee W  
**Cc:** David Warkentien  
**Subject:** Re: MCLM  
**Attachments:** Duquesne.APA.2.3.10.doc

Dear Lee,

Thanks for your interest in our spectrum, here as promised is a draft Asset Purchase Agreement. We propose to sell our five channel pairs of 50 kHz each to Duquesne Light Company for operation in Allegheny County and in Beaver County. (I know the site list is being finalized and that Plum may be a problem if the RF goes into Westmoreland County).

Please see the attached Asset Purchase Agreement. We would file all FCC paperwork required for the transfer of licenses to Duquesne Light Company. We would lease the spectrum for \$1 while the FCC is processing and approving the transfer. The lease allows your company to operate within 21 days of its filing.

In the event you do not get the license or we breach, the deposit is refunded. If your plans change, we keep half the deposit.

Please note the \$125,000 deposit would be due to be paid by February 15th.

Sincerely,

John

John Reardon  
CEO  
Maritime Communications/Land Mobile, LLC  
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John

**Site Latitude Longitude GND-ELV Height Top El**

Plumb 40-28-18 79-43-25 1195FT 180FT 54.9 1375FT

Thanks  
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