

Agenda Report

May 12, 2014

TO: Honorable Mayor and City Council

THROUGH: Municipal Services Committee (May 6, 2014)

FROM: Water and Power Department

SUBJECT: AUTHORIZATION TO ENTER INTO A CONTRACT WITH BLACK AND VEATCH, FOR AN AMOUNT NOT TO EXCEED \$270,100 FOR ASSISTANCE IN DEVELOPING A COMPREHENSIVE 20-YEAR INTEGRATED RESOURCE PLAN (IRP) FOR PASADENA WATER AND POWER.

RECOMMENDATION:

It is recommended that the City Council:

1. Find that the proposed contract authorization is exempt from the California Environmental Quality Act ("CEQA") pursuant to State CEQA Guidelines Section 15262, Feasibility and Planning Studies; and
2. Authorize the City Manager to enter into a contract with Black and Veatch to provide professional consulting services to assist the Pasadena Water and Power Department ("PWP") with an update to its 20-year Power Integrated Resource Plan ("IRP"), for an amount not to exceed \$270,100. Competitive bidding is not required pursuant to City Charter Section 1002 (F) Contracts for Professional or Unique Services.

EXECUTIVE SUMMARY:

The IRP serves as a blueprint for PWP to deliver reliable, environmentally responsible electricity service at competitive rates over a 20-year planning period. The purpose of the IRP is to establish a plan for PWP's portfolio of energy supply resources, including energy efficiency and demand response, that meets our customers' electric needs while balancing various critical but sometimes competing objectives including: (i) system reliability, (ii) fiscal responsibility, and (iii) environmental stewardship.

The Pasadena City Council adopted the 2009 IRP on March 16, 2009 following an extensive analytic and public stakeholder input process. The City Council adopted the 2012 IRP Update on March 5, 2012. Pace Global Energy Services, LLC provided consulting services for both the 2009 and 2012 power IRPs.

The IRP includes various metrics for reducing PWP's reliance on existing coal resources, increasing renewable resources, replacing an aging local power plant, promoting energy conservation and demand reduction, encouraging customers' use of solar photovoltaic systems, and reducing greenhouse gas emissions. The IRP is developed with public input, including a Stakeholder Technical Advisory Group ("STAG"), in order to reflect the priorities of the community and PWP's customers.

Over the next eight to twelve months, PWP will review and refresh the IRP for the 2015-2034 planning period. In order to support the IRP update, PWP will need professional consulting services to provide energy market and resource intelligence, review assumptions, provide modeling and other analytic services, and assist with public stakeholder processes.

On February 28, 2014, PWP issued an RFP for consulting services to assist PWP to prepare an update to its power IRP. Ten consulting firms responded, and Black and Veatch received the highest evaluated score. It is recommended that the City Council authorize the City Manager to execute an agreement with Black and Veatch in an amount not to exceed \$270,100 to assist PWP with preparing the 2014 IRP update.

The proposed contract includes two scopes of work. Task Order 1 includes a set of specified deliverables, to be provided at a fixed cost of \$122,100. Task Order 2 provides for additional analysis and support services that may be required. These additional services will be provided on a time and materials basis, as specified and authorized in writing from PWP, in an amount not to exceed \$148,000.

BACKGROUND:

PWP has initiated a process to review and refresh the power IRP for the 2015-2034 planning period. The purpose of the IRP is to evaluate and optimize PWP's portfolio of energy supply resources, including energy efficiency and demand response, and to meet our customers' electric needs while balancing various critical but sometimes competing objectives. For PWP, those critical objectives include: (i) system reliability, (ii) fiscal responsibility, and (iii) environmental stewardship. There are a number of important regulatory, market and infrastructure issues and changes that need to be reviewed and addressed in the 2014 update to the IRP.

On February 28, 2014, PWP issued an RFP for consulting services to assist PWP with the updated power IRP. The proposals were scored based on the criteria shown in Table 1.

**Table 1
 RFP Scoring Criteria**

Scoring Criteria	Max Points
Strength of Proposal	40
Time Frame	10
Cost of Services	25
Qualifications and Experience	15
Small Business Preference	5
Local Business Preference	5
Total Score	100

After reviewing the ten written proposals, the evaluation team interviewed the top scoring bidder by phone to confirm certain terms of its proposal and concluded that Black and Veatch best meets PWP's requirements for the updated IRP. Table 2 shows the final scoring of the ten respondents.

**Table 2
 Final Bidder Evaluation Scoring**

Vendor/Bidder	Office Location*	Score (Out of 100)	Proposed Task Order 1 Price
Black and Veatch	Los Angeles, CA	79.4	\$122,100
Navigant	Los Angeles, CA	74.8	\$125,000
Burns and McDonnell	Kansas City, MO	64.2	\$134,389
PACE Global	Fairfax, VA	63.4	\$329,000
Leidos	Denver, CO	63.0	\$334,700
PA Consulting	Los Angeles, CA	55.1	\$350,000
Sage	Columbus, NE	54.5	\$115,000
Lummus	Canton, MA	49.9	\$275,787
EPSIM Corp	Boulder, CO	41.8	\$250,000
Insight Solutions	Pasadena, CA	38.7	\$175,460

*from Vendor Questionnaire Form AA-1

Black and Veatch's proposal includes the following scope of work for Task Order 1 at a fixed cost of \$122,100:

Table 3
Proposed “Fixed Cost” Scope of Work

1.	Kickoff meeting to develop/validate staff assumptions.
2.	Identify/review/validate IRP risk factor assumptions, baseline, scenarios
3.	Assist in identifying potential resources ,estimate costs
4.	Provide technical, analytical, and modeling support
5.	Evaluate each portfolio under three future market scenarios
6.	Support development of reports, presentations
7.	Participate/facilitate 3-4 meetings of STAG and incorporate comments
8.	Participate/facilitate 3-5 public meetings and incorporate comments

Based on past experience, the process of developing an IRP is iterative in nature and can have unexpected turns. To address new ideas or information that may arise in the process, stakeholder requests, or needs for more detailed analysis in areas where PWP may lack expertise, PWP anticipates requesting additional services such as:

- Modeling additional resource portfolio scenarios;
- Assessment of distribution-level renewable integration costs for distributed solar photovoltaic generation;
- Evaluation of potential future renewable energy integration cost through CAISO Markets;
- Additional public meeting support; and,
- Additional technical research, analysis and evaluation.

Under the proposed contract, PWP may request additional services on a time and materials basis. Based on estimates in Black and Veatch’s proposal for this additional “Task Order 2” scope of work, the proposed contract includes authorization for additional services in an amount not to exceed \$148,000.

The total proposed contract authorization is an amount not to exceed \$270,100, including a fixed cost of \$122,100 for Task Order 1 services and up to \$148,000 for additional services as needed under Task Order 2.

COUNCIL POLICY CONSIDERATION:

Developing an IRP is consistent with the City’s Urban Environmental Accords goals with respect to increasing renewable energy and reducing greenhouse gas emissions, the General Plan Energy Element, and the City Council’s Strategic Planning Goals. The IRP will support the following Urban Environmental Accords goals: Action 1- Renewable Energy; Action 2- Energy Efficiency; and Action 3- Climate Change.

ENVIRONMENTAL ANALYSIS:

The proposed action is the execution of an agreement for professional consulting services to assist in the preparation of an IRP. This action has been determined to be

statutorily exempt from CEQA pursuant to State CEQA Guidelines Section 15262. This Section states that a project involving only feasibility and planning studies for possible future actions which the agency has not approved, adopted, or funded are exempt from CEQA. Execution of a professional services agreement for the preparation of an IRP does not commit the City to undertaking any improvements or other actions that would result in a physical change in the environment.

FISCAL IMPACT:

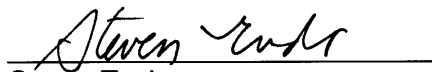
Funding is available in the approved FY 2014 Capital Improvement Program, Budget No. 3160 for Power Supply Integrated Resource Planning and Design Project, Account Number 8114-411-841600-0341-23036-04.

Respectfully submitted,



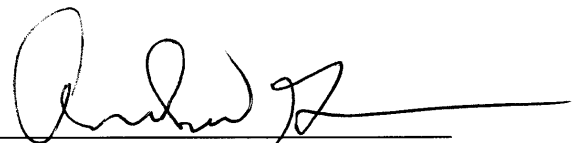
PHYLLIS E. CURRIE
General Manager
Water and Power Department

Prepared by:



Steve Endo
Principal Engineer

Concurred by:



Andrew Green
Director of Finance

Approved by:



MICHAEL J. BECK
City Manager

TAXPAYER PROTECTION AMENDMENT

Under the provisions of the City of Pasadena Taxpayer Protection Amendment ("Taxpayer Protection Act"), the Contractor/Organization will be considered a "recipient of a public benefit." The full provisions of the Taxpayer Protection Act are set forth in Pasadena City Charter, Article XVII. Under the Taxpayer Protection Act, City public officials who approve this Contract are prohibited from receiving specified gifts, campaign contributions or employment from Contractor for a specified time. As well, if this Contract is to be approved by the City Council, Councilmembers or candidates for Council are prohibited from receiving campaign contributions during the time this Contract is being negotiated. This prohibition extends to individuals and entities that are specified and identified in the Taxpayer Protection Act and includes Contractor/Organization and its trustees, directors, partners, corporate officers and those with more than a 10% equity, participation, or revenue interest in Contractor/Organization. Contractor/Organization understands and agrees that: (A) Contractor/Organization is aware of the Taxpayer Protection Act; (B) Contractor/Organization will complete and return the forms provided by the City in order to identify all of the recipients of a public benefit specified in the Taxpayer Protection Act; and (C) Contractor/Organization will not make any prohibited gift, campaign contribution or offer of employment to any public official who negotiated and/or approved this Contract.

**Disclosure Pursuant to the
City of Pasadena Taxpayer Protection Amendment
Pasadena City Charter, Article XVII**

Contractor/Organization hereby discloses its trustees, directors, partners, officers, and those with more than 10% equity, participation, or revenue interest in Contractor/Organization, as follows:

(If printing, please print legibly. Use additional sheets as necessary.)

1. Contractor/Organization Name: Black & Veatch Corporation

2. Type of Entity: <input checked="" type="checkbox"/> non-government <input type="checkbox"/> nonprofit 501(c)(3), (4), or (6)

3. Name(s) of trustees, directors, partners, officers of Contractor/Organization: See attached.

4. Names of those with more than a 10% equity, participation or revenue interest in Contractor/Organization: Black & Veatch Corporation is a corporation within the Black & Veatch family of companies who are directly or indirectly owned by the Parent, Black & Veatch Holding Company. Black & Veatch Holding Company is a privately held corporation with majority ownership by an ESOP (employee stock ownership program).

Prepared by: Shelly Campbell

Title: Proposal Manager

Phone: 913-458-3579

Date: 2-28-14

Black & Veatch Corporation

DIRECTORS:

First Name	Middle Name	Last Name
Timothy	Wayne	Triplett

OFFICERS:

First Name	Initial	Last Name	Position
David	L.	Abrams	Senior Vice President
John	A.	Achenbach	Vice President
Joe	R.	Aillet	Associate Vice President
Mark		Allan	Vice President
Bruce	M.	Allender	Associate Vice President
Mark	T.	Amick	Associate Vice President
Douglas	D.	Anderson	Vice President
James	C.	Anderson	Vice President
Ted	R.	Andry	Vice President
Terry	R.	Apple	Vice President
Carlos	E.	Araoz	Vice President
Stanley	A.	Armbruster	Associate Vice President
Jeffrey	N.	Austin	Associate Vice President
Greg	T.	Bahora	Associate Vice President
Mike	J.	Baker	Associate Vice President
Michael		Barcroft	Associate Vice President
Ian	D.	Barrett	Associate Vice President
Mark	E.	Bennett	Associate Vice President
Sheri	A.	Blauwikel	Executive Vice President
Paul	M.	Boersma	Associate Vice President
D.	Matthews	Bond	Associate Vice President
Richard	T.	Bozeman	Associate Vice President
Jack	R.	Brake	Associate Vice President
Myron	L.	Brase	Senior Vice President
William	R.	Breckenridge	Vice President
David	J.	Brill	Associate Vice President

First Name	Middle Name	Last Name	Current Title
Brian	K.	Britton	Associate Vice President
Robert		Brnilovich	Vice President
Hector	H.	Brouwer De Koning	Vice President
David		Brown	Associate Vice President
Daniel	F.	Buhrmaster	Associate Vice President
Brent	B.	Burger	Vice President
Douglas	C.	Butcher	Associate Vice President
Andrew	C.	Byers	Associate Vice President
Albert	R.	Cabrera	Associate Vice President
Luis	A.	Cabreriza	Vice President
Derek	L.	Cambridge	Associate Vice President
David	B.	Campbell	Associate Vice President
Steven	D.	Canney	Senior Vice President
David	J.	Carlson	Vice President
Richard	G.	Chapman	Senior Vice President
Hoe Wai		Cheong	Executive Vice President
John	M	Chevrette	President – Mgmt. Consulting
Thomas	E.	Christensen	Associate Vice President
James	H.	Clark	Senior Vice President
Arthur		Close	Vice President
Gregory	D.	Clum	Senior Vice President
Jeffrey	D.	Coggins	Associate Vice President
Craig	C.	Connell	Vice President
Joseph	P.	Conradt	Associate Vice President
James	M.	Coyle	Senior Vice President
William	A.	Crabb	Associate Vice President
Robert	A.	Crandall	Associate Vice President
Richard	N.	Crowdis	Vice President
Kevin	L.	Currence	Vice President
James	DM	Currie	Associate Vice President
Karen	L.	Daniel	President & CFO
William	R.	Davis	Associate Vice President
Kevin	N.	Davis	Associate Vice President

First Name	Middle Name	Last Name	Current Title
John	C.	Davisson	Vice President
Scott	J.	Dicks	Associate Vice President
Jonathan	W.	Doane	Vice President
James	D.	Doull	Vice President
Christi	L.	Driver	Associate Vice President
William	T.	Dudley	Associate Vice President
Steve	L.	Duxbury	Vice President
Ralph	J.	Dyro	Vice President
Ralph	T.	Eberts	Executive Vice President
Steve	L.	Edwards	CEO
David	F.	Egger	Senior Vice President
Ryan	J.	Elbert	Associate Vice President
Fred	J.	Ellermeier	Vice President
Kerry	B.	Erington	Senior Vice President
Alan		Fairweather	Associate Vice President
Russell	A.	Feingold	Vice President
John	W.	Felski	Associate Vice President
Steven	N.	Foellmi	Vice President
Mark	A.	Fournier	Vice President
Frederick	H.	Freeland	Associate Vice President
Robert	J.	Frendt	Vice President
Glenda	L.	Friesen	Associate Vice President
Mark	A.	Gake	Associate Vice President
Michael	E.	Gammill	Vice President
Lawrence	A.	Gast	Vice President
Eric	K.	Gaston	Vice President
Michael	A.	Gaumnitz	Vice President
John	W.	George	Vice President
Robert		Germinder	Vice President
James	E.	Gettinger	Associate Vice President
Stephen	M.	Gibbs	Associate Vice President
Luis	F.	Gil	Associate Vice President
Donnie	H.	Ginn	Associate Vice President

First Name	Middle Name	Last Name	Position
Michael	K.	Goff	Associate Vice President
Sean	M.	Goldwasser	Vice President
Brenda	M.	Greig	Associate Vice President
Jon	P.	Gribble	Associate Vice President
Donnie	R.	Griffin	Associate Vice President
George	P.	Gruber	Vice President
John	M.	Gustke	Senior Vice President
Dave	S.	Hallowell	Vice President
Jacqueline	R.	Hansen	Associate Vice President
Robert	R.	Harbron	Associate Vice President
John	R.	Hardt	Associate Vice President
David	K.	Harris	Vice President
Garry	W.	Hart	Vice President
James	M.	Hawkins	Associate Vice President
Brady	F.	Hays	Vice President
Bradley	E.	Hemken	Vice President
Ronald	E.	Henderson	Vice President
James	A.	Hengel	Senior Vice President
Jeffrey	W.	Henson	Associate Vice President
James	C.	Hesby	Vice President
Stephen	L.	Heyborne	Associate Vice President
Kevin	T.	Hinkle	Associate Vice President
Richard	H	Hirsch	Associate Vice President
Shawn	D.	Hoffart	Vice President
			Senior Vice President &
Angela	L.	Hoffman	Treasurer
David	L.	Holt	Associate Vice President
Xiaoyong		Huang	Associate Vice President
Roosevelt	R.	Huggins	Associate Vice President
John	R.	Hughes	Associate Vice President
Robert	A.	Hulsey	Associate Vice President
Richard	I.	Jacober	Vice President
John	J.	Janchar	Executive Vice President



Robert	A.	Joerger	Associate Vice President
John	E.	Johnson	Vice President
John	H.	Johnson	Vice President
Joy	D.	Johnson	Vice President
Michael	S.	Johnson	Associate Vice President
Terry	L.	Johnson	Senior Vice President
Terry	A.	Jordan	Vice President
Jennifer	L.	Julian	Associate Vice President
Vladimir	I.	Kantor	Associate Vice President
Joseph	R.	Kaufman	Vice President
Prahlad	H.R.	Kaushik	Associate Vice President
Lori	J	Kelleher	President & Chief HR Officer
Pamela	P.	Kenel	Associate Vice President
David	E.	Kerns	Executive Vice President
Kevin	A.	Kerschen	Associate Vice President
Dan		Kieny	Senior Vice President & CIO
David	E	Kinchen	Associate Vice President
Michael	L.	King	Associate Vice President
Richard	F.	King	Vice President
Shawn	R.	King	Associate Vice President
Brian	J.	Klausner	Associate Vice President
Paul	R.	Kneitz	Associate Vice President
David	J.	Koehler	Associate Vice President
Christopher	E.	Koller	Associate Vice President
Anthony		Koodie	Associate Vice President
Christopher	A.	Krafft	Associate Vice President
Ronald	G.	Krage	Associate Vice President
Randy	J.	Kriesel	Associate Vice President
Leonard	J.	Kriesky	Vice President
Kerry	C.	Kruzal	Associate Vice President
Jeffrey	E.	Kurtz	Associate Vice President
Shawn	D.	Labonde	Associate Vice President
Kent	A.	Lackey	Associate Vice President



Les	K.	Lampe	Vice President
David	A.	Lampitt	Senior Vice President
Todd	R.	Larson	Associate Vice President
Ngai Fai		Lau	Associate Vice President
Larry	W.	Lee	Associate Vice President
Matthew	C.	Lee	Senior Vice President
Susan	A.	Lee	Associate Vice President
David	M.	Lefebvre	Associate Vice President
David	A.	Leligdon	Vice President
Roger	P.	Lenertz	Senior Vice President
Arron	L.	Lewis	Associate Vice President
James	R.	Lewis	President & Chief Administrative Offier
Yien Phin		Liew	Associate Vice President
Dale	S.	Lindberg	Vice President
Paul		Lloyd-Henry	Vice President
Peter	D.	Loftspring	Senior Vice President & Assistant Secretary
William	C.	Luelf	Associate Vice President
Joseph	A.	Mahendran	Associate Vice President
Hoi Leung		Man	Vice President
John	W.	Marshall	Associate Vice President
Curtis	J.	Martin	Associate Vice President
Gary	L.	Martin	Associate Vice President
Peter		Martin	Associate Vice President
Lee	R.	Mather	Associate Vice President
William		McAleb	Associate Vice President
Mark	A.	McDermott	Associate Vice President
James	G.	McKelvey	Associate Vice President
David	F.	McMenemie	Vice President
Jennifer	L.	Meegan	Senior Vice President
David	C.	Mendelsohn	Senior Vice President
Danny	W.	Meyer	Senior Vice President
Adrienne	L.	Mickells	Vice President

First Name	Initials	Last Name	Position
Paul	M.	Miller	Vice President
Stephen		Miller	Vice President
Charles	B.	Mitchell	Vice President
Steven	J.	Mitts	Associate Vice President
James	P	Morley	Associate Vice President
John	S.	Morrow	Associate Vice President
Christopher	G.	Mueller	Associate Vice President
			President - Construction & Procurement
John	E.	Murphy	Procurement
Jerry	D	Myers	Vice President
John	B.	Nagle	Associate Vice President
Louis	E.	Nemeth	Associate Vice President
Owen	K	Newman	Associate Vice President
Matthew	Richard	Nott	Vice President
Thomas	M.	O'Brien	Associate Vice President
James	E.	O'Connor	Vice President
Faruk		Oksuz	Vice President
Eric	J.	Oldenhuis	Vice President
Michael	G.	Orth	Senior Vice President
Ordean	H.	Oskvig	President & CEO, Energy
Timothy	Dale	Palmer	Associate Vice President
Guy	D.	Parks	Associate Vice President
Donald	Arthur	Parr	Associate Vice President
Anand	P	Pattani	Vice President
Patrick	J	Pelissero	Associate Vice President
Carl	F.	Petz	Associate Vice President
James	Thomas	Phillips	Associate Vice President
Steven	D.	Phillips	Vice President
Kyriacos	M	Pierides	Associate Vice President
Stephen	E.	Pieschl	Senior Vice President
Theodore	P.	Pintcke	Vice President
Jose	A.	Pires	Associate Vice President
Ryan	J.	Pletka	Associate Vice President

First Name	Middle Name	Last Name	Position
Joseph	K.	Plubell	Senior Vice President
Marijan		Podrebarac	Associate Vice President
Andrew	Stuart	Powell	Associate Vice President
Curtis	John	Powell	Vice President
Mark	A.	Prenni	Vice President
Jonathan	R.	Pressdee	Vice President
Shahid	S.	Qadri	Vice President
Tom	J.	Ratzki	Vice President
John	S.	Rector	Associate Vice President
Dana	V.	Reel	Senior Vice President
Thomas	P.	Reorda	Senior Vice President
Brent	M.	Reuss	Senior Vice President
David	W.	Roberts	Associate Vice President
Gregory	W.	Robertson	Associate Vice President
Clinton	O.	Robinson	Associate Vice President
Randal	D.	Romack	Associate Vice President
James	A.	Rose	Vice President
Sonya		Roshek	Vice President
Christopher	M	Ruddle	Associate Vice President
Daniel	C.	Rueckert	Associate Vice President
Dennis	R.	Schapker	Vice President
John	J.	Schebler Jr.	Senior Vice President
Brian	E.	Schmidt	Associate Vice President
Daniel	L.	Schmidt	Senior Vice President
James	H.	Schnieders	Vice President
Jason	T.	Schottler	Associate Vice President
Mark	E.	Schrimp	Vice President
Bart	C.	Schubert	Vice President
Christopher	William	Scott	Vice President
Gary	John	Selby	Associate Vice President
Michael	J.	Serafin	Associate Vice President
Stuart	K.	Shaw	Vice President
Gary	F.	Shimp	Associate Vice President

First Name	Middle Name	Last Name	Executive Title
Jay	R.	Sigman	Associate Vice President
Joseph	A.	Silver	Vice President
Keith	D.	Small	Associate Vice President
Curtis	W.	Smith	Associate Vice President
Allen	L.	Sneath	Associate Vice President
Ngan		Song	Associate Vice President
G.	Scott	Stallard	Vice President
Jeffrey	J.	Stamm	Vice President – Tax Counsel
Michael	S.	Stark	Associate Vice President
Mark	T.	Steichen	Associate Vice President
Donald	R.	Stevens	Executive Vice President
William	S.	Stoner	Vice President
James		Strayer	Associate Vice President
James	P.	Sundberg	Associate Vice President
Mohan		Tahiliani	Vice President
Javid	H.	Talib	Vice President
Eng Guan			
Eric		Tan	Associate Vice President
Seng Chai		Tan	Vice President
John	Michael	Tattersall	Vice President
Sean	M.	Terrell	Associate Vice President
Lisa	K.	Terry	Associate Vice President
David	A.	Timmermann	Associate Vice President
Hala	Z.	Titus	Associate Vice President
Gary	W.	Townsend	Vice President
Martin	G.	Travers	President - Telecommunications Executive Vice President & Secretary
Timothy	Wayne	Triplett	Secretary
Rodney	I.	Unruh	Senior Vice President
William	R	Van Dyke	President
Bruce	G.	Van Heest	Vice President
John	G.	Voeller	Senior Vice President
Michael	D	Wadley	Vice President
Thomas	G.	Wahl	Associate Vice President

First Name	Middle Name	Last Name	Business Title
Richard	A.E.	Waite	Associate Vice President
David	M.	Walker	Associate Vice President
Cindy	L.	Wallis-Lage	President
Edward	J.	Walsh	Executive Vice President
Suqing		Wang	Associate Vice President
Brad	A.	Warn	Vice President
Gregory	L.	Wayne	Associate Vice President
Matthew	D.	Webber	Senior Vice President
Cathy	A.	Weber	Associate Vice President
Paul	W.	Weida	Vice President
William	J.	Wells	Associate Vice President
James	E.	Welp	Vice President
Kurt	J.	Westermann	Senior Vice President
Lyle	A.	White	Vice President
Dale	E.	Williams	Vice President
Steven	D.	Williams	Associate Vice President
Fredrik		Winterlind	Vice President
Sheldon	E.	Wood	Senior Vice President
Kirk	P.	Woodward	Senior Vice President
Douglas	L.	Woody	Associate Vice President
Ernest	D.	Wright	Senior Vice President
Wei Leong		Yong	Vice President
Kent	L.	Zernickow	Vice President

officer list updated 12-10-2013

COMPANY TYPE: General Business Corporation

FEIN: 43-1833073

REGISTRATION NUMBER: NA

DATE OF INCORPORATION: 11/16/1998

PLACE OF INCORPORATION: Delaware

PRINCIPAL ADDRESS: 11401 Lamar

Overland Park, KS 66211

REGISTERED AGENT IN The Corporation Trust Company

STATE OF INCORPORATION: 1209 Orange St.
Wilmington, DE 19801

FORMER NAMES:

SHAREHOLDERS: Black & Veatch Holding Company

SHARES AUTHORIZED: 3,000 common stock \$1.00 par value

SHARES ISSUED:

PURPOSE:

1. To engage in any and all lawful acts or activities for which corporations may be organized under the Delaware General Corporation Law.
2. Engineering, procurement, and construction consulting and management in the power plant industry, waste water facilities, and telecommunications systems.