

Our Team

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We Have an Experienced Team and Are Available

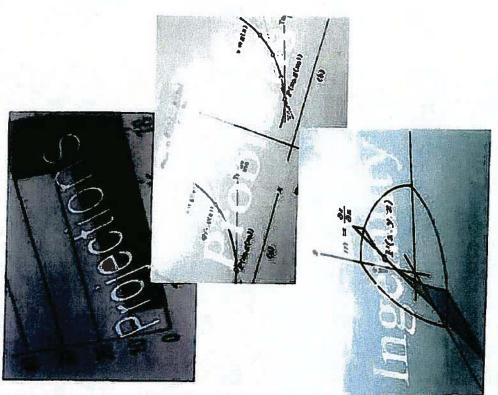
- Average Years of Experience 28
- Average Years at Black & Veatch 28
- All Have Recent Detailed Design Experience for a Coal Unit
- Five Lead Positions Coming Off Recent Weston 4 Supercritical Coal Project 6
- (Brings Breadth of Experience in Project Execution) EPC as Well as Engineer and Overseas Work

Team Available for latan 2 Expansion Assignment and All Key Positions Dedicated to This Project

WE BRING IT ALL TOGETHER



Our Approach



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0294 Schedule KMR2010-19

Coal Project Contracting Execution Approaches

Usually Require a Phased Approach

Phase 1

Owner's Engineer With or Without Permitting

- Conceptual Design
- Schedule Level II or Level III
 - Cost Estimate
- Permitting
- Project Execution Plan
- Possibly Initial Procurements

Project Execution

- Detailed Design
- Procurement
- Construction
- Startup

Can Lead to or Result in Project Execution E Only, Ep, EpCM, EPC, Alternative EPC

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Alternative Contracting Execution Plans

Traditional Multiple Contracts

20 to 100 Contracts for Engineering, Equipment, Construction Management, and Construction

Traditional EPC

Complete Turnkey Single Contract

Alternative EPC

Open Book / Target Priced EPC

Single Turnkey Contract With Owner Participation

EPC Islands

Multiple Turnkey Contracts

Balance-of-Plant EPC

Major OEM Furnish Contracts With Owner

BOP From Single EPC Contractor

Furnish and Erect Packages With BOP EPC Major OEMs F&E Contracts With Owner

BOP From Single EPC Contractor

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Traditional Multiple Contracts Approach

Pros:

- More Owner Involvement / Control of Design and Schedule
- Selection of Best Preferred or Optimized Equipment and Designs
 - Opportunity for Lowest
- Early Scope Definition Less Critical
- E, Ep, or EpCM Contractor Can Be Incentivized and Share in Project Risks Utilization of Local

Cons:

More Risk for Owner

Owner

Higher Potential for Performance Gaps Scope and

Contractor

E, Ep, or EpcM

Certainty Point Delayed Price

Construction Contractors

F&E's

OEM's

More Owner Staff Required

Unit 3, EKPC Gilbert 3 (Mixed) Weston 4, Xcel King, Cross Example Projects: WPS

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Contractors More Likely

Depart of the

Cons:

- Critical Importance of Early Scope Definition **a**
- Separate OE Contract Required
 - Potential Capital Cost Premium for Undefined Scope and Risk
 - Less Owner Control / Involvement
- Limited Number of Qualified Strength) Potential Bidders (Technical and Financial

Pros:

- Risk Assumed and Managed by EPC Contractor
 - Earlier Price Certainty
- Less Potential Scope Gaps
 - Single Entity to Deal With
 - Reduced Owner Staff Requirements

Spruce 2, Dallman 4, AECI Springerville, CB 4, NC 2, Example Projects:

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Alternative EPC Open Book / Target Priced EPC

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Owner

Pros:

Risk Is Shared and Goals Aligned Between Owner and Contractor

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- Separate Phase I OE Contract Not Required (Optional)
- Owner Decision Involvement / Control **Throughout Open Book Phase**
 - Reduced Owner Staff Requirements
 - Early Definition Less Critical
- Promotes Team Approach Between Owner and Contractor
- Proven Success Driving Down Costs, Meeting Schedules
 - Minimizes Contractor Risk Premiums Book Can Be Closed at Any Time

County, CLECO

Contractor Shares % of Savings on SCR's and FGD's, Vectren Contractor SCR's, Newmont, Trimble Price Certainty Later (But Target Example Projects: DP&L EPC Open Book Phases (Optional) Risk Is Shared on Open Book Cons: Established Early) Phases (Optional)

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(Optional)

Alternative EPC Typical Open Book / Target Priced EPC Process

- Owner Selects and Negotiates With Preferred EPC Contractor Ó
- Or Contractor Selection Based on Qualifications and Indicative Estimate
- MOU Executed Ò
- Plan to Set Target Pricing 3
- Scope During Phase I / LNTP Defined
- Perform Phase I / LNTP Activities 0
- Preliminary Conceptual Design 0
- Schedule Level III 0
- **Geotech Study** 0
- **Equipment and Performance** Verification 2

- Set Target Price(s) Including: 6
- Allowances
- Contingencies
- Incentives
- **EPC Contract Executed**
- Update Costs As:
- Initial Procurements Awarded
- Commodity and Quantities Defined
- Vendor and Subcontractor Prices Identified
- Open Book Phase Line Item Savings / Risk Shared With Contractor
- Close the Book (Optional) 0

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EPC Islands - Multiple Turnkey Contracts Alternative EPC

Divide Project Into Two, Three, or More EPC Islands

Pros:

- Contractor's Risk Reduced di
- More Qualified Potential **Bidders**
- OEM's More Likely to Bid as a Prime
- Reduced Owner Staff 6

Example Projects: Asian Projects, Tanjung Jati B

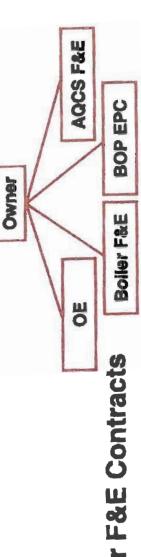
BOP EPC Owner Island EPC Turbine Island EPC Boiler OE

Cons:

- Increased Owners Risk
- Package Interface Definition Critical
- Package Scope Definition Critical Separate OE Contract Required
- Increased Potential of Scope Gaps
- OEM's More Likely to Bid as a Prime
- Three or More Engineers Involved 0

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F&E Major OEM Packages and BOP EPC **Alternative EPC**



- Major OEM F-Only or F&E Contracts 9
- **BOP From Single EPC Contractor**

Pros:

- Owner Involvement in Selection of Major OEM Equipment
- Reduced Owners Staff

Example Projects: Xcel Comanche

Cons:

- More Risk for Owner
- **OEM's Bidding Construction**
- Higher Potential for Scope Gaps
- **Delayed Price Certainty**
- Package Interface and Scope Definitions Critical
- Separate OE Contract Required

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Four Execution Approaches Previously Discussed for latan Unit 2 Expansion

Competitively Bid EPC

Traditional Multi-Contract (80-100+ Contracts)

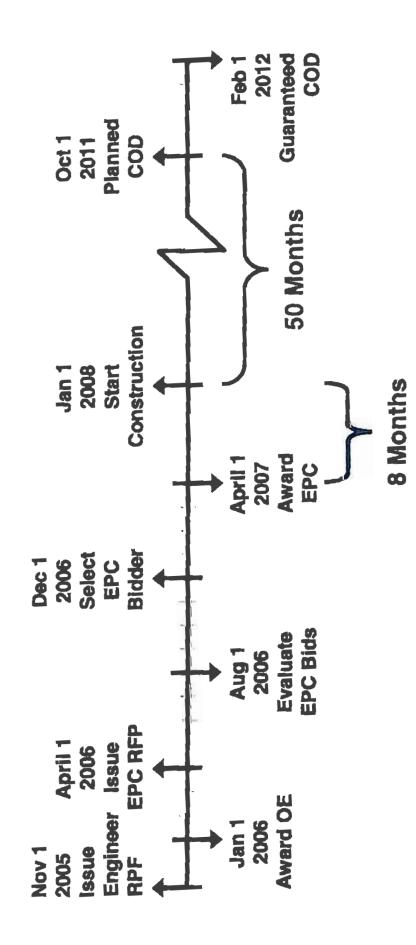
Traditional Multi-Contract (~10 Contracts)

BOP EPC With F&E Major OEM Packages

Schedule Issues

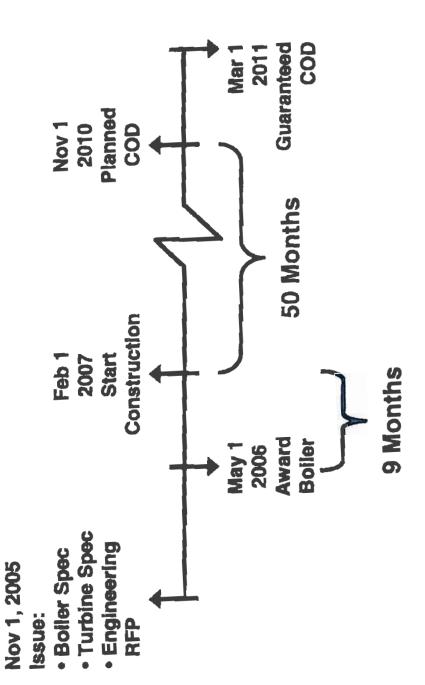


Competitively Bid EPC (Previously Discussed)



Traditional Multi-Contract

(Previously Discussed)



BOP EPC With F&E (5 to 10) Major OEM Packages

(Previously Discussed)

Nov 1, 2005

• Boiler

ssue:

Spec

Turbine

Nov 1

July 1 2006 2006 May 1 Prepare Spec

2006 Evaluate BOP EPC Bids Award AQCS Award

Other

Specs

Planned

COD

Construction

Start 2007

Sept 1 2011

Dec 1

Boiler

July 1 2006 April 1

Award Turbine 2006

enssi

Guaranteed COD

50 Months

2012 Jan 1

BOP EPC

BOP EPC

Award 2007

March 15

8.5 Months

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[3] latan 2 Expansion Schedule Considerations

December 1, 2005 to June 1, 2010

54 Months

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Market Schedules

WPSC Weston Unit 4 – 45 Months to Owner's COD (60 Months From Engineer's Release)

OPPD NC Unit 2 – 48 Months to Guaranteed COD

CPS Spruce Unit 2 – 49 Months to Guaranteed COD

CWLP Dallman "Unit 4 – 53 Months to Guaranteed COD

Mid American CB4 (KBV Bid) +57 Months to

Guaranteed COD

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Proposed latan 2 Expansion Approaches

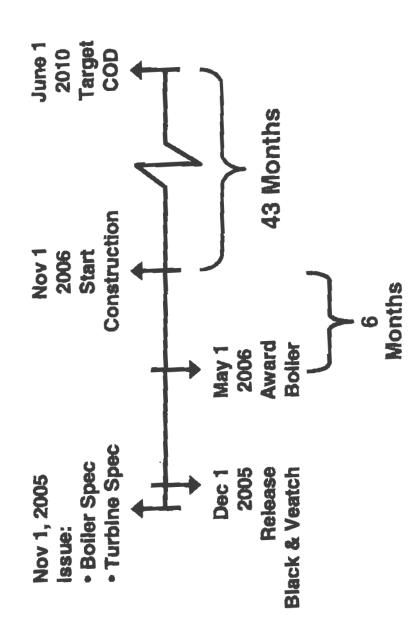
We See Two Options to Reduce Schedule

- Multiple Contracts B&V EpCM Scope
- Negotiated Alternative EPC KBV (Mewrite & 1854)

latan 2 Expansion Multiple Contracts -

B&V EpCM Scope

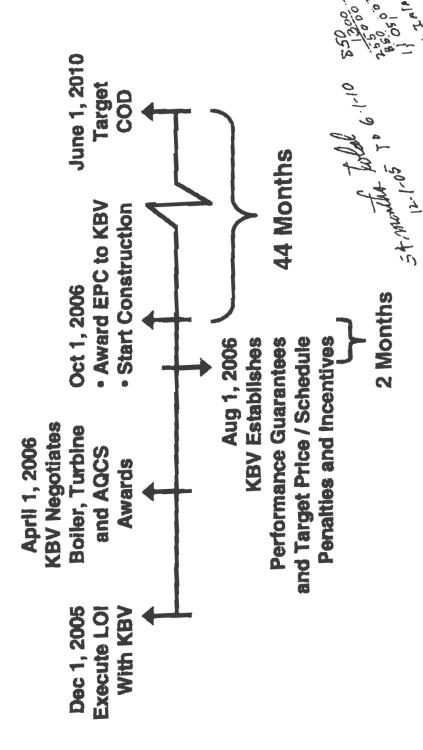
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latan 1 AQCS Part of These Contracts

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latan 2 Expansion Negotiated Alternative EPC - KBV



latan 1 AQCS Contracted at Same Time

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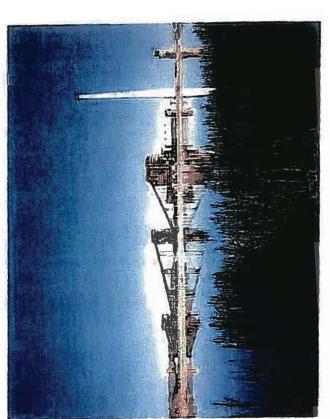
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Factors for Success



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Successful Projects

- On Time
- On Budget
- Meets Owner's Expectations for Quality / Performance
- Meet Safety Goals
- Strengthened Team Relationships
- Minimize Impact on Environment
- Brings Value to Shareholders and Ratepayers



Factors for Success

- Realistic Expectations
- Open Communication
- Understanding Goals and Vision
- Selection of Qualified and Experienced Partners



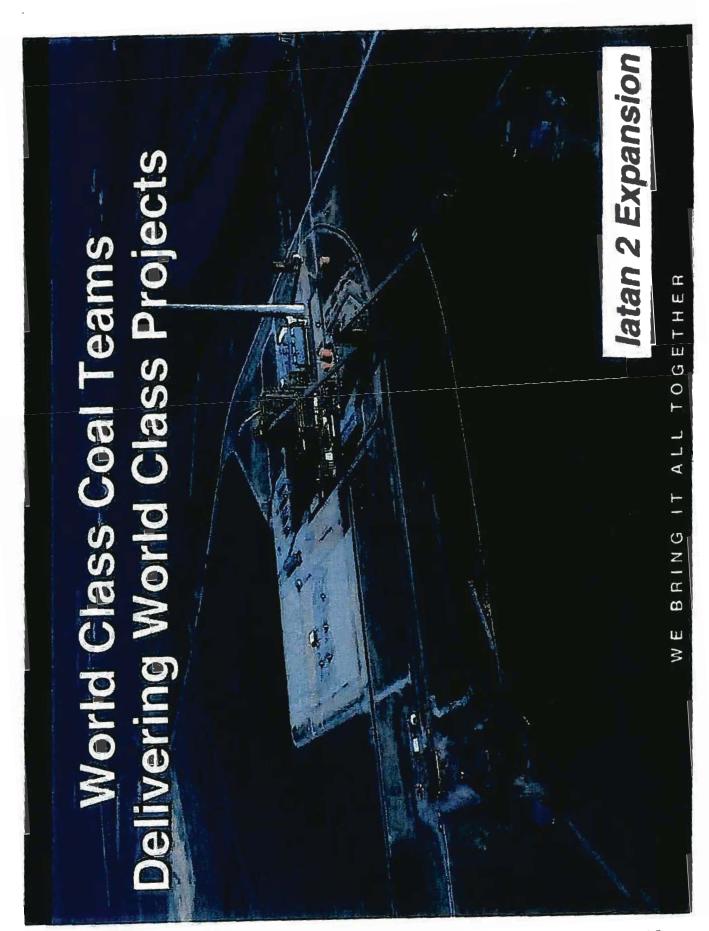
Wrap-Up

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- Making the latan 2 Expansion Project a Success Black & Veatch Is Committed to KCP&L and
- The Black & Veatch Value Added Gives KCP&L the Best Chance for a 6/1/2010 COD



Senior Vice
President and
Project Director
Coal Business Line
Director
Energy Division

Ronald J. Ott is a Senior Vice President and Project Director, and the Coal Business Line Director of the Energy Division of the Black & Veatch. As the Coal Business Line Director his responsibilities include the oversight of all coal project proposals, and overall project management of the commercial and design aspects of all Black & Veatch coal projects. As a Senior Project Director he is responsible for the supervision and overall project management of specific projects for assigned clients.

Project Management

Representative Project Experience

Education
Masters, Mechanical
Engineering, University of
Missouri at Columbia,
1971

Bachelors, Mechanical Engineering, University of Missouri at Columbia, 1971

Professional Registration 1976 PE Missouri 1978 PE Florida 1983 PE Nevada 1987 PE Connecticut 1989 PE Iowa 1993 PE Michigan

Total Years Experience 34

Joined B&V

Professional Associations
American Society of
Mechanical Engineers
Missouri Society of
Professional Engineers
National Society of
Professional Engineers

Language Capabilities English Weston Unit 4; Wisconsin Public Service Company; Wisconsin 2003-Present

Project Director. Project Director for this 530 MW supercritical coal fired (PC) project.

Key West, Stock Island SC and Ft. Pierce CC; FMPA; Florida 2003-Present

Project Director. Project Director for this SC and CC project, and Project Executive for FMPA gas and oil projects and GSA.

Hastings Unit 2; Hasting Utilities; Nebraska 2002-Present

Project Director. Project Director for Phase 1 development work for this 220 MW subcritical coal fired (PC) project.

Coyote Springs; Mirant; California 2002-2003

Project Director. Project Director for this combined cycle project. B&V scope was completion of construction and startup.

Various Projects; Clients; and Locations 2001-Present

Coal Business Line Director. Supervision and overall management of Black & Veatch coal program.

Contra-Costa; Mirant; California

2001-Present

Project Director. Project Director for this combined cycle EPC project. Project currently in suspension.

Tanjung Jati B; Sumitomo Corp / PLN; Indonesia 2001-2002

Project Director. Project Director for this two by 660 MW coal fired (PC) EPC subcritical project. B&V scope was boiler and AQCS islands.

Desert Basin, Frederickson Power, Rio Nogales, Osceola; Reliant, Frederickson Power, Constellation, Reliant; Arizona, Washington, Texas, Florida 2001-2004

Project Director. Project Director for these combined cycle EPC projects.

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San Juan Station, Unit 5; Public Service Company of New Mexico; New Mexico

2001

Project Director. Project Director for Phase 1 development work for this 500 MW subcritical coal fired (PC) project.

Two 750 MW Coal Fired Plants, Client and Location Confidential 2001

Project Director. Phase I permitting support, conceptual design, and procurement activities associated with two 750 MW coal fired plants.

Batesville Generation Facility, LSP / NRG, Batesville, Mississippi 1998-2001

Project Executive. BVZ Power Partners (Black & Vestch-Zachry JV). EPC contract for a three unit 837 MW net combined cycle plant with Westinghouse 501F combustion turbine generators and ABB steam turbine generators.

Mangalore Thermal Power Plant, Cogentrix / China L&P, India 1996-1998

Consortium Director. Consortium Project Director for the DB Riley, Inc., GEC Alsthom, and TBV Power EPC Consortium. Four 253 MW coal fired units. Black & Veatch project development work suspended in 1998 due to approval delays.

Pagbilao Power Station, CEPA / Hopewell, Philippines 1992 – 1996

Project Manager / PIC. Participated in EPC contract negotiations. Supervised the scheduling, project administration, cost estimating, design, procurement, and overall project management of BVI EPC scope for the two 368 MW coal fired pulverized coal units in the Philippines.

Cypress Energy; Cypress Energy Partners (NRG & B&V); Florida 1992

Project Manager. Supervised preliminary design work to support permitting and licensing efforts for Cypress Energy project. Two 420 MW pulverized coal plants in Florida.

Council Bluffs Station Unit 3; Iowa Power and Light; Iowa 1990-1991

Project Manager. Supervised the study of feedwater heater drain problems.

Council Bluffs Station Unit 1 and 2; Iowa Power and Light; Iowa 1990-1991

Project Manager. Supervised the design of soot blower modifications.

Barbers Point, AES, Hawali 1989-1992

Project Manager. Supervised the scheduling, project administration, permitting, cost estimating, design, procurement, and contract administration for the cogeneration plant, a 180 MW unit with two circulating fluidizing bed (CFB) steam generators and one 1,000°F / 1,000°F reheat turbine.

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Council Bluffs Station Unit 1 and 3; Iowa Power and Light; Iowa 1987-1989

Project Manager. Supervised the design of fire protection and fire water supply system modifications.

Applied Energy Services, Florida, Flowaii, Rhode Island 1987-1989

Project Manager. Supervised the preparation of proposals, preliminary design, and permitting design work for multiple projects which are based on the use of CFB boilers. Participated in EPC contract negotiations.

Anclote Units 1 and 2; Florida Power Corporation; Florida 1986

Engineering Manager. Supervised the preparation of a compressed air systems study.

Bartow Unit 3; Florida Power Corporation; Florida 1986

Engineering Manager. Supervised the preparation of an extraction steam line evaluation report.

Council Bluffs Station Unit 3; Iowa Power and Light; Iowa 1986

Engineering Manager. Supervised the investigation and preparation of a report on the coal dust explosion.

Thames Cogeneration Plant; Applied Energy Services; Connecticut 1985-1990

Engineering Manager. Supervised the preliminary design, permitting design work, and detailed designs associated with the cogeneration plant, a 180 MW unit with two circulating fluidized bed (CFB) steam generators and one 1,000°F / 1000°F reheat turbine.

Anctote Units 2; Florida Power Corporation; Florida 1985-1986

Engineering Manager. Supervised the design work associated with the igniter upgrade project.

Council Bluffs Station Units 1 and 2; Iowa Power and Light; Iowa 1985-1986

Engineering Manager. Supervised the design work associated with the control systems and water induction upgrade project.

Mt. Storm Units 1 and 2; Virginia Electric Power Company; Virginia 1985-1986

Engineering Manager. Supervised the design work associated with the water induction upgrade project and instrument air system modification project.

Anclote Units 1 and 2; Florida Power Corporation; Florida 1985

Engineering Manager. Supervised the design work associated with the boiler void pressurization system addition project.

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Anclote Units 1 and 2; Florida Power Corporation; Florida 1985

Engineering Manager. Supervised the design work associated with the air proheat system addition project.

Crystal River Units 4 and 5; Florida Power Corporation; Florida 1985

Engineering Manager. Supervised the preparation of a boiler feedwater system evaluation.

Bartow Unit 3 and Anclote Units 1 and 2, FPC, Florida 1984-1986

Engineering Manager. Supervised the design work associated with several plant upgrade projects.

Anciote Units 1 and 2; Florida Power Corporation; Florida 1984-1985

Project Engineer. Participated in the mechanical systems preparation of unit upgrade and cycling studies.

White Pine Power Project; Nevada 1984-1985

Project Engineer Mechanical. Participated in the Phase I preliminary design of two 750 Mw electric generating units.

Portsmouth Station; Virginia Electric Power Company; Virginia 1984-1985

Engineering Manager. Supervised the preparation of operating and maintenance procedures for a water making facility (demineralizer) and ash handling systems.

Council Bluffs Station Units 1 and 2; Iowa Power and Light; Iowa 1984

Project Engineer Mechanical. Supervised the preparation of a study on the upgrade and modernization of control systems, water induction, and cycling features.

Chesterfield Unit 3; Virginia Electric Power Company; Virginia 1984

Project Engineer Mechanical. Supervised the mechanical design work associated with the soot blower upgrade project. The project involved the removal of existing blowers, piping system modifications, and the installation of a new control system.

Council Bluffs Station Units 1, 2 and 3, Iowa Power and Light, Iowa 1983 - 1984

Project Engineer Mechanical. Prepared a study on the HP feedwater waters. This study reviewed tube failure data on the existing heaters, evaluated repair or replacement of the heaters, and evaluated methods of heater removal and replacement. Supervised the preparation of mechanical calculations, heater and construction specifications, and detailed construction drawings for the purchase and installation of new heaters.

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Chesterfield Unit 3; Virginia Electric Power Company; Virginia 1983-1984

Project Engineer. Supervised the mechanical design work associated with the instrumentation and control modernization project. Project involved the addition of control air dryers, control room modifications and HVAC, controls, control systems, instrumentation, and control panels.

Louisa Unit 1, Iowa-Illinois Gas & Electric Company, Iowa 1982-1984

Project Engineer, Mechanical. Supervised the completion of design work and resolution of field construction problems on the 650 MW coal fueled electric generating plant.

Muscatine Iowa Power Plant, Grain Processing Corporation, LIG&E, Iowa 1981-1983

Project Engineer, Mechanical. Supervised the mechanical design work associated with the addition of variable speed ID fans and a chimney for six stoker fueled boilers at the Grain Processing Corporation's Muscatine, Iowa plant.

Florida Power Corporation; Florida 1980-1982

Project Engineer, Mechanical. Participated in the preliminary design of an 835 MW electric generating unit. Responsibilities included the preparation of studies.

Crystal River Unit 2, Florida Power Corporation, Florida 1978-1979

Project Engineer, Mechanical. Supervised the design of precipitator modifications for the 480 MW electric generating unit. Responsibilities included supervising the preparation of specifications, bills of materials, and detailed construction drawings.

Crystal River Units 4 and 5, Florida Power Corporation, Florida 1977 – 1985

Project Engineer, Mechanical. Supervised the mechanical design of two 700 MW electric generating units. Responsibilities included supervising the preparation of studies, calculations, specifications, bills of materials, and detailed construction drawings.

Crystal River Units 1 and 2, Florida Power Corporation, Florida 1976-1977

Project Mechanical Engineer. Supervised the mechanical design work associated with a coal and balanced draft conversion of the 400 MW and 480 MW electric generating units. Project involved the installation of ID fans, electrostatic precipitators, ash handling facilities, and boiler modifications. Supervised the preparation of studies, calculations, specifications, bills of materials, and detailed construction drawings.

Sibley Station Unit 3; Missouri Public Service Company; Missouri 1976-1977

Project Mechanical Engineer. Supervised the design work associated with modifications to the 340 MW supercritical electric generating unit. Project

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involved the installation of a main steam warming system to be used in the unit's startup procedures. Responsibilities included preparing a study, calculations, bills of materials, and a construction specification. Supervised the preparation of detailed construction drawings.

Energy Research and Development Administration, Arizona 1975-1976

Mechanical Engineer. Participated in the preliminary design of a 10 MW solar pilot plant. Responsibilities included the concept and preliminary design of electrical generation systems. Supervised draftsmen in the preparation of plant arrangement drawings and piping and instrument drawings. Developed text for the preliminary baseline report and participated in oral presentations to ERDA.

Iatan Unit 1, Kansas City Power & Light / St. Joseph Power & Light; Missouri 1975-1976

Mechanical Engineer. Participated in the design of the 625 MW electric generating unit. Responsibilities included reviewing the adequacy of and assisting in preparing an analysis of the turbine water induction protection systems.

Energy Research and Development Administration; Arizona 1975

Mechanical Engineer. Assisted in preparing a proposal for the 10 MW solar pilot plant. Responsibilities included the development of drawings and text for the electrical generation section of the proposal.

La Cygne Unit 1, Kansas City Power & Light / Kansas Gas and Electric; Kansas

1975

Mechanical Engineer. Reviewed the adequacy of and assisted in preparing an analysis of the turbine water induction protection systems of the 800 MW coal fueled electric generating unit.

La Cygne Unit 2, Kansas City Power & Light / Kansas Gas and Electric; Kansas

1973-1975

Mechanical Engineer. Participated in the design of the 622 MW electric generating station. Responsibilities included the concept and design of systems related to the turbine, turbine cycle, and plant support systems. Prepared studies for piping systems and mechanical equipment. Developed calculations for sizing piping, pumps, control valves, heat exchangers, and various other pieces of mechanical equipment. Prepared specifications and bills of materials for the purchase of the equipment. Performed bid evaluations and checked manufacturer's shop drawings for conformance to specification requirements. Supervised Associate Mechanical Engineers in the development of the work. Reviewed and checked detail construction drawings.

Arapahoe Station Unit 4; Public Service Company of Colorado; Colorado 1972

Associated Mechanical Engineer. Participated in the design of a flue gas scrubber addition to the steam electric station. Responsibilities included calculations for

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sizing the scrubber, piping, pumps, control valves, ID fan, and flue gas ductwork. Prepared specifications and bills of materials for the purchase of the equipment.

Arapahoe Station; Public Service Company of Colorado; Colorado 1971

Associated Mechanical Engineer. Assisted in preparing an economic and feasibility study for an air pollution abatement problem for the steam electric station. Responsibilities included estimating the size and quantities of the various pieces of equipment required for different options and collecting cost data for the economic analysis of the different options.

Publications

Coal Fired Power Projects in the 2000's; Black & Veatch White Paper; January 2003 and updated May 2004; Coauthor

Ramos' Private-Power Policies Pay Off; Electric Power International; Third Quarter 1995; Cosutbor

Fluidized-Bed Combustion: Retrofit, New-Plant Option; Electrical World; May 1989; Coauthor

Presentations

Coal Fired Power Projects in the 2000's; Electric Power Conference, Houston; March 2003

Optimum Power Plant Project at Hawaii Plant Features CFB Boilers; Power-Gen Asia, Singapore; September 1993

EPC Bidding and Proposal Presentation; Black & Veatch Power Growth Module 2.10, EPC Contracting Session III; May 1992

Risk Management; Black & Vestch Power Growth Module 2.10, EPC Contracting Session II; April 1992

Risks; Black & Veatch Power Growth Module 2.10, EPC Contracting Session I; March 1992

The Choice Between CFB and PC Technology; Black & Veatch Winning Strategies for the 90's Seminar for Utility Executives; April 1990

Status Report - AES Thames Project; POWER-GEN; December 1988

Circulating Fluidized Bed Combustion; Black & Veatch Fluidized Bed Steam Power Generation Seminar for Electric Utility Executives; November 1988

Reconversion to Coal Firing at Crystal River; ASCE Spring Convention; April 1982

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Vice President Project Management

Project Management and Executive Sponsor on Coal Fired and AOCS Projects

Education Bachelors, Civil, Colorado State University, 1973

Professional Registration North Dakota, 1973

Total Years Experience

Joined B&V 1973

Language Capabilities English Dale S. Lindberg is a Vice President in the firm. His background includes serving as project director, project manager or Executive Sponsor for large complex coal fired and Air Quality Control (AQCS) projects both domestically and in Asia. His experiences includes project and project field management on numerous coal fired stations, combined cycle, retrofit, SCR and FGD projects as noted below. These projects have covered EPC as well as owner's engineer and construction manager responsibilities.

Lindberg is currently serving as the project director for the AEP AQCS projects and as Executive Sponsor for a number of Black & Vestch utility clients and partners.

Representative Project Experience

Conesville, Kyger and Clifty AQCS Projects; American Electric Power; Ohio and Indiana

2004-Present

Project Director and Executive. Serving as a project director for Owner's Engineer role on SCR and FGD studies and detailed design at the Conesville 4, Kyger Creek and Clifty Creek Stations.

Nearman Unit 1 Cooling Tower Addition; Board of Public Utilities of Kansas City Kansas

2004 Present

Project Director and Executive. Oversee the study, planning, detail design and construction management of a Cooling Tower addition at the Nearman Unit 1 coal fired generating station.

OPG SCR 4 x 500 MW; Ontario Power Generation; Ontario, Canada 2000-2004

Project Manager. Served as project manager and executive for an Owner's Engineer role to specify and manage 4 x 500 MW SCR project at the Lambton and Nanticoke Coal Fired Stations.

EE&C; Kansus City

2002-2003

Construction Operations. Manage the department field staff and project managers of construction (PMC).

Hanfeng; Foster Wheeler; China 1997-2000

Project Manager / Partner-in-Charge. Served as the partner-in-charge for installation of 2 x 600 MW coal fired stations in China. Black & Veatch's scope incuded design and supply of 16,000 tons of boiler building structural steel.

Tanjung Jati B; Indonesia 1995-2001

Partner-in-Charge. Partner-in-charge for the Tanjung Jati B project. Black & Veatch was responsible for the boiler island balance-of-plant design for a 2 x 660 MW coal fired boiler project.

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Nantong; People's Republic of China 1995-1999

Partner-in-Charge. Black & Veatch provided total plant engineering (including field service) and supplied balance-of-plant equipment and material for a 2 x 350 MW coal fired power plant.

Taichung 5-8; Talwan Power Company; Taiwan 1993-2001

Partner-in-Charge. Black & Veatch was in a consortium with Babcock & Wilcox to design and furnish 4 x 550 MW of FGD on a turnkey basis for Taiwan Power Campany. Black & Veatch's scope included the balance of plant such as the electrical supply, water supply, gypsum handling, reactant bandling, and the waste water treatment systems.

Big Cajun Stations 1 and 2; Cajun Electric; Baton Rouge, Louisiana 1993-1996

Project Manager. Project manager for the control system upgrade project at Big Cajun Stations 1 and 2.

Board of Public Utilities; Kansas

Project Manager. Project manager responsible for the study of SO₂ and NO_X reduction technologies available to comply with Clean Air Act.

Ponca City; Oklahoma

1991-1996

Project Manager. Combined cycle repowering project (60 MW) using a LM6000. Provided engineering and construction management services.

Taichung 1-4; Taiwan Power Company; Taiwan 1990-1996

Partner-in-Charge / Project Manager. Black & Vestch was responsible for developing a specification for 4 x 500 MW wet FGD and procurement and technical services for Taiwan Power Company.

Quindaro Units 1 and 2; Board of Public Utilities; Kansas City, Kansas 1990-1996

Project Manager. Served as the project manager for furnishing online performance monitoring system. This computer driven system helps operators lower plant heat rate through optimum operation.

Kaw Station and Quindaro Units 1 and 2; Board of Public Utilities; Kansas City, Kansas

1990-1996

Project Manager. Demineralizer replacement for existing coal fueled power plants.

Rochester Gas & Electric; New York 1990-1996

Project Manager. Perform plant inspections, plant personnel interviews, and develop critical component inspection plan. Study of computer database for life

7,7/2001

extension data, unit performance, reliability analysis, heat rate, capacity upgrade, and Clean Air Act compliance.

Madison Gas & Electric; Wisconsin 1990-1996

Project Manager. Site selection, licensing, and permitting support for a 100 MW simple cycle combustion turbine.

Manchester Street Station; Rhode Island

Engineering Manager. Combined cycle repowering project (450 MW).

Kaw Station; Board of Public Utilitles; Kansas City, Kansas

Project Manager. High energy pipe assessment and demineralizer replacement study.

Quindaro Units 1 and 2; Board of Public Utilities; Kansas City, Kansas 1990

Project Manager. Data logger replacement and high energy pipe assessment.

Suao; Taiwan Power Company; Taiwan 1988

Project Structural Engineer. Air quality control system study for the coal fueled thermal power station.

Taichung; Taiwan Power Company; Taiwan 1988

Project Structural Engineer. Study on coal ash disposal system for eight-unit coal fueled station. Project required travel to Japan to observe use of reclaimed coal ash land along the seashore.

City of Kansas City, Kansas; Kansas City, Kansas 1987

Project Structural Engineer. Provided detailed engineering and construction management services for the conversion of the precipitator from hot to cold operation. The plant size was 250 MW. The work required extensive ductwork and structural steel redesign, air heater basket replacement, fan modifications, and precipitator control upgrades.

Wyman Station; Central Maine Power; Maine

Project Structural Engineer. Life extension study for three units at the station. Work required extensive site inspection and modification reports.

Taichung; Taiwan Power Company; Taiwan

Project Structural Engineer. Further study on coal ash disposal system for an eight-mait fossil fueled station. Study included conceptual design of mechanical equipment and ash pond required for the disposal of coal ash and scrubber wastes. Also reclaimed and land management and feasibility of ocean disposal.

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City of Kansus City, Kansus; Kansus City, Kansus 1985

Project Structural Engineer / Project Field Manager. Provided engineering and construction management services to retrofit a precipitator and ash handling equipment to a 150 MW coal fueled unit. Services included preparation of specifications; detailed structural support and electrical construction design drawings; and onsite coordination of construction, scheduling, and startup coordination.

James De Young Station; City of Holland; Holland, Michigan 1984

Project Field Manager. Provided engineering and construction management services for retrofitting two precipitators and ash handling equipment to the station. Services included preparation of specifications; detailed foundation and electrical construction design drawings; and onsite coordination of construction, scheduling, and startup coordination.

J.B Sims Unit 3; Michigan 1980-1983

Project Field Manager. Construction management for 65 MW power plant. Project included Fuji turbine generator and transformer, cold precipitator, wet scrubber, wedge wire intake screens, concrete chimney, and Bailey Network 90 control.

Milton R. Young Station; North Dakota 1980

Resident Engineer. Resident engineering supervision for construction of scrubber waste ponds at existing power plant.

Stanton Station; North Dakota 1980

Resident Engineer. Construction management on supplement boiler project (70 MW). Supervised installation of pressure grouted piles and pile cap foundation.

Coal Creek Station; North Dakota 1976-1980

Resident Engineer. Construction management on two 550 MW power plant installations. Included supervision on the following: two coal storage siles (slip form) with total capacity of 32,000 tons; erection of 25,000 tons of structural steel; placement of concrete foundations that totaled 210,000 cy; and erection of 27 ½ acres of metal wall paneling.

Coal Creek Station; North Dakota

Design Engineer. Structural engineering on two 550 MW power plant installations. Included design of structural steel, foundations, and masonry construction.

La Cygne Unit 2; Kansas City Power & Light; La Cygne, Kansas 1973-1975

Design Engineer. Structural engineering on power plant installation. Included.

THERE



DALE S. LINDBERG

Presentations

- New and Retrofit FGD Installations on Large, Coal Fueled Plants in Taiwan, ROC, CEPSI, 1994
- FGD / NO_X Reduction on Large Coal Fueled Electric Generating Stations in Taiwan, ROC; PowerGen Asia; 1994
- Nearman Creek Electrostatic Precipitator Conversion; Carolina Air Pollution Control Association Annual Meeting, Myrtle Beach, South Carolina
- PIMS Plant Equipment, Structural Presentation to Black & Veatch Civil Structural Engineering Department during Noon Lecture
- Presentation on Construction of J.B. Sims; Unit 3 of Michigan Municipal Electric Association (MMEA) at their Annual Meeting
- Neaman Creek Electrostatic Precipitator Conversion; Carolina Air Pollution Control Association Annual Meeting; Myrtle Beach, South Carolina; October 1988



Vice President --Project Manager

Project Management

Stephen E. Pieschl is a Vice President — Project Management whose responsibilities include supervision of all engineering, procurement, and construction activities on projects.

Representative Project Experience

Baseload 2, Wisconsin Public Service, Wisconsin 2005-Present

Project Manager. Project consists of preliminary engineering and permitting support for a baseload coal unit for Wisconsin Public Service.

Professional Registration 1977 PE Kansas 1978 PE North Dakota

University of Kansas, 1972

Bachelors, Aeronautic,

Total Years Experience 33

Joined B&V 1972

Education

Professional Associations American Society of Mechanical Engineers

Language Capabilities English Weston Unit 4, Wisconsin Public Service, Wausau, Wisconsin 2003-Present

Project Manager. Project consists of the detailed design, site engineering, and startup of a 530 MW Supercritical coal fired power plant at the existing Weston Site in Wausan, Wisconsin.

Rio Nogales Project, Constellation Power Services, Seguin, Texas 2000-2001

Project Executive. Project consists of a Joint Venture (BVZ) EPC Project to design, procure, and construct an 800 MW 3 x 1 combined cycle power project in Seguin, Texas.

Hayden Emissions Control Project, Public Service Company of Colorado, Hayden, Colorado 1996-1999

Project Manager. Project consists of a joint venture EPC contract to install spray dryers and baghouses on the Public Service of Colorado Hayden Station Units 1 and 2. Black & Vestch scope includes all direct hire field construction.

San Jose Coal Fired Power Station Project, TECO Power Services, San Jose, Guatemala 1996-1999

Project Manager. Project consists of total engineering, procurement, and construction scope for a 230 MW coal fired power plant.

State Line Station Retrofit Project, State Line Energy 1996 - 1998

Project Manager. Project consists of scoping required modifications to the State Line Stations in order to meet output, heat rate, and availability goals. EPC implementation of the modifications is also included.

Fort St. Vrain Repower Project, Public Service of Colorado 1994-1998

Project Manager. Project consists of a turnkey project to repower the existing 330 MW steam turbine at the decommissioned Fort St. Vrain Nuclear Power Station with two combined cycle 150 MW combustion turbines. Overall responsibility for engineering, procurement, and direct hire construction of the project.

Di 9700

Fossil Retrofit Projects, Commonwealth Edison Company 1994-1997

Project Manager. Project consists of providing engineering services to scope and implement plans to upgrade and modernize several fossil generating stations for COMED.

East Kentucky Power Cooperative, Kentucky 1990-1996

Project Manager. Project consisted of installing a river intake structure, water treatment system, and process steam supply system using reboilers at an existing coal fueled power plant. Responsibilities included overall project management including client interface and project control.

Pannee Unit 1 Fabric Filter Retrofit, Public Service Company of Colorado, 1992-1994

Project Manager. Project consisted of retrofitting the 500 MW Pawnee Unit 1 with a flue gas fabric filter to replace a hot side precipitator. Responsibilities include overall project management including engineering and procurement.

Cooper Station Ash System Modification, East Kentucky Power Cooperative 1991-1994

Project Manager. Project consisted of replacing the existing ash sluice systems on Cooper Station Units 1 and 2 with dry fly ash collection and drag chain conveyor bottom ash collection systems. Responsibilities included overall project management.

Kentucky Utilities, Kentucky 1991-1994

Engineering Manager. Project consisted of installation of 400 MW of simple cycle combustion turbine on an existing site. Responsibilities include overall management of the engineering and procurement for the projects.

East Kentucky Power Cooperative, Kentucky 1991-1994

Engineering Manager. Project consisted of installation of 400 MW of simple cycle combustion turbines on a new site. Responsibilities included overall management of the procurement and engineering for the project.

Argus, ACE Cogeneration Company, California 1988-1990

Project Engineer, Mechanical Systems. Responsibilities included overall management of mechanical department design, procurement, and drawing production activities.

Coronado Unit 3, Salt River Project, St. Johns, Arizona 1985-1988

Assistant Project Mechanical Engineer. Responsibilities included overseeing mechanical design for the generating unit with specific responsibility for design of a horizontal flue gas scrubber system, preparation of mechanical equipment procurement specifications, and preparation of mechanical construction specifications.

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Intermountain Power Project, Los Angeles Department of Water & Power, Delta, Utah

1983-1985

Mechanical Engineer. In charge of specification preparation and administration for the mechanical construction, turbine erection, high and low pressure piping, and insulation contracts for the project and operating instructions and system description.

Stanton Station, United Power Association, North Dakota 1976 – 1977

Senior Mechanical Engineer. Startup Manager and Senior Mechanical Resident Engineer involved in the erection and startup of the steam generator, baghouse and spray dryer, lignite conveying system, and mechanical piping systems.

Coal Creek, Cooperative Power Association / United Power Association, North Dakota

1977-1981

Mechanical Field Engineer / Construction Manager. Mechanical Field Engineer involved in the erection of process piping systems, lignite handling equipment, ash handling equipment, HVAC system, draft equipment, steam generator, and flue gas scrubber.

Coal Creek Units 1 and 2, Cooperative Power Association / United Power Association, North Dakota

1975-1977

Mechanical Engineer. Participated in the design and procurement of the lignite handling equipment.

St. Joseph Light & Power Company, Missouri 1975

Mechanical Engineer. Participated in the review and startup of coal handling facilities addition to an existing plant.

Sherco Units 1 and 2, Northern States Power Company, Minnesota 1972-1975

Mechanical Engineer. Participated in the mechanical design of the steam cycle systems and the procurement and review of plant equipment.

B/3/2005



DONALD J. KNOTTS

Project Manager

Project Management

Education
Bachelors, Electrical
Engineering, University of
Missouri at Columbia, 1973

Professional Registration Florida, 1993 Missouri, 1960

Total Years Experience

Joined Black & Vestch

Professional Associations
Missouri Society of Professional
Engineers
National Society of Professional
Engineers

Language Capabilities English Donald J. Knotts is a project manager in the Black & Veatch Energy Division. His past assignments include project manager, assistant project manager, engineering manager, project electrical engineer, field construction engineering manager and startup manager. His assignments, on over 12 coal fueled power projects, have totaled in excess of 6,425 MW of power generation capacity. Knotts has spent over six years in construction including 4½ years on coal fired projects. Knotts has previously been a member of the National Fire Protection Association and on the subcommittee of Burner Safety Systems.

Representative Project Experience

Bazeload II; Wisconsin Public Service; Wausuu, Wisconsin 2005-Present

Project Manager. Supervision and coordination of conceptual design, permitting support, scheduling, and cost estimating for two project sites to support a 500 MW supercritical coal fired project.

Wesformers Energy Limited; Perth, Australia 2004-2005

Project Manager. Supervision and coordination of conceptual design, scheduling, cost estimating, and permitting support for two coal fired 325 MW brownfield projects.

Southwest Power Station, Unit 2; Springfield, Missouri 2003-2004

Project Manager. Responsible for the evaluation of two, competing, coal-fired generation options. The options consisted of a 275 MW brownfield project and a 550 MW greenfield project.

Whelan Energy Center; Hastings, Nebraska 2002-2003

Project Manager. Supervision and coordination of development of the conceptual design scope definition, schedule, cost estimate, and execution plan for a 220 MW coal fired power plant.

Confidential Client 2001-2002

Assistant Project Manager. Supervision and coordination of engineering, procurement, scheduling, estimating, and quality assurance for the Phase 1 activities associated with two 750 MW coal fired plants.

Tuas Power Station; Tuas Power Limited; Singapore 1999-2001

Assistant Project Manager. Supervision and coordination of engineering, procurement, and scheduling for a 700 MW combined cycle facility.

Tri Energy IPP Project; Trl Energy Company Limited; Thailand 1998-1999

Project Field Engineer (Field Department). Responsible for supervision and coordination of documentation control / procedures, drawing control / procedures, assist in resoling design errors / incomplete information, assist in coordinating

DONALD J. KNOTTS



startup activities, and supervise production of startup packages for a two-on-one, 700 MW combined cycle project.

Tri Energy IPP Project; Tri Energy Company Limited; Thailand 1997-1998

Engineering Manager. Responsible for supervision and coordination of design activities, procurements, scheduling, and construction specifications for a two-on-one, 700 MW combined cycle project.

SSAA Power Station Units 5 and 6; Tenaga Nasional Berhard; Malaysia 1996

Project Engineer-Electrical / Control. Responsible for supervision and coordination of electrical and control design activities, procurement, and construction interface for two 500 MW pulverized coal power plants.

Confidential Coal Projects Initiative 1996

Project Engineer-Electrical / Control Systems. Project Engineer for a confidential initiative, which developed a conceptual pulverized coal (PC) fueled power station design approach incorporating innovative concepts to achieve price and schedule improvements for coal project offerings. This project was a joint effort between Black & Veatch and two other world-class parties, including a steam turbine generator supplier and a fossil fueled boiler supplier. The concepts covered overall project execution through an integrated team approach, plus design, procurement, and construction efficiency improvement aspects as applicable to EPC projects.

Rhinelander Energy Center Unit 1; Wisconsin Power Co.; Wisconsin 1995

Project Engineer-Electrical / Control Systems. Responsible for supervision and coordination of electrical and control design activities, procurement, and construction specifications for a 125 MW coal fueled fluidized bed cogeneration project.

Stanton Energy Center Unit 2; Orlando Utilities Commission; Florida 1990-1995

Project Engineer-Electrical / Control Systems. Responsible for supervision and coordination of electrical and control design activities, procurement, and construction specifications for a 150 MW coal fueled power plant.

ACE Cogeneration Expansion Project; ACE Cogeneration Company; California 1988-1990

Project Engineer-Electrical / Control Systems. Responsible for the supervision and coordination of design, procurement, and installation contracts for control systems on a 100 MW coal fueled fluidized bed boiler cogeneration project.

Coronado Station; Salt River Project; St. Johns, Arizona 1986-1988

Assistant Project Engineer-Electrical / Control Systems. Responsible for design of coordinated control system, plant logic systems, and supervision of other engineers on a 450 MW coal fueled power plant.



DONALD J. KNOTTS

Stanton Energy Center; Orlando Utilities Commission; Florida 1983-1986

Assistant Project Engineer-Electrical / Control Systems. Responsible for design of the coordinated control system, burner management, plant logic systems, and assisting other engineers as required on a 450 MW coal fueled power plant.

Louisa Generating Station; Iowa Illinois Electric; Iowa 1981-1983

Startup Engineer. Responsible for management of startup activities such as scheduling, development of system turnover packages, checkout and calibration contract, safety tagging, and communication with the Owner's personnel for a 750 MW coal fueled power plant.

Ottumwa Generating Station; Iowa Southern Utilities; Iowa 1979-1981

Startup Engineer. Responsible for supervising the installation and startup of all instruments and control systems for a 750 MW coal-fueled power plant.

Ottumwa Generation Station; Iowa Southern Utilities; Iowa 1976-1979

Assistant Project Engineer. Responsible for design of the coal handling, unit protection, burner management, and other plant systems. Also, writing and follow-up of the combustion control, control panels, and instrumentation installation specifications for a 750 MW coal fueled power plant.

Units 1 and 2, Northern States Power Company; Minnesota 1973-1975

Assistant Engineer. Responsible for power wiring design, cable and raceway lists, and bills of material on two 750 MW coal fueled power plant.



Senior Project Controls Manager

Project Controls and Construction Management for Power Generation Projects

Education Bachelors, Construction Engineering, lows State University, 1991 MBA, University of Kansas, 2001

Professional Registration Engineer (PE), Kansas

Total Years Experience

Joined B&V 1992

Language Capabilities English, Bahasa Indonesian, Spanish

Mark A. McDermott is a senior project controls manager and the manager of construction project controls for the EE&C division of Black & Veatch. He has extensive experience in construction, planning and scheduling, material control, cost engineering, contract administration, estimating, and expediting.

Summary of Coal Experience: Mark has been involved in five coal projects, totaling over 2,600 MW.

Description of Project Experience

Manager - Construction Project Controls Section of Project Controls Department. Overland Park, KS 2002-Present

Manager - Construction Project Controls. As section leader, McDermott is responsible for ensuring that construction controls resources, including professionals with the appropriate expertise, are available and that standards and tools are in place to support proposals and project execution efforts. Responsible for overseeing construction-related project controls processes including field progress measurement and field forecasting, CPM schedule development and BOQ management. He is responsible for defining related standards and guides, ensuring the quality and productivity of the section, providing training and performance review of assigned staff. Additional duties include schedule and cash flow development for proposals.

Jinling & Shidongkuo Combined Cycle Projects; HPI, China 2004-Present

Project Controls Manager. Project Controls Manager for 3 Ea 1-on-1-single shaft combined cycle project, Responsible for cost management and schedule management for the Engineering contract.

Oxychem Battle Ground Cogeneration Expansion Project; Occidental Chemical; Deer Park, Texas 2004-Present

Project Controls Manager. Project Controls Manager for a 1-on-1-on-0 combined cycle cogeneration expansion project. Responsible for BOQ management, cost management and schedule management. Responsibilities include both home office project controls and field project controls for a direct hire construction approach.

Aries Power Plant, MEPPH (Aquila / Calpine), Pleasant IIII, Missouri 2000-2002

Field Project Controls Manager. Field Project Controls Manager for a 2-on-1, 600 MW CC Project. Responsible for construction schedule development and control, progress measurement, cost forecasting, reporting and control, cash flow and cash management, material control, site procurement, and subcontract administration including contract negotiations, change management and trends, and invoice approvals. Coordinated delivery of major equipment including all rail shipments. Implemented the first Black & Vestch power division application of the FPMS (Field Progress Measurement System) system for tracking subcontractor and self-direct scope of work progress and productivity, Also



supervised administration staff for document control, drawing control and office administration.

MEP Pleasant Hill, MEPPH (Aquila / Calpine), Pleasant Hill, Missouri 1999-2000

Project Controls Manager. Project controls Manager for a 2-on-1, 600 MW CC Project. Responsible for development of a BOQ based project estimate, development of a detailed management control schedule including construction and startup, cost reporting, and schedule maintenance. Assisted in development of the project procurement plan, performed initial constructability reviews and assisted in the development of the construction execution plan.

Sanford Repowering, Florida Power & Light, Sanford, Florida 1999

Project Controls Manager. Project controls Manager for 2 EA 4-on-1, 1000 MW combined cycle repowering blocks. Responsible for development of a BOQ based project estimate, development of a detailed management control schedule including construction and startup, cost reporting, and schedule maintenance.

Ft. Myers Repowering, Florida Power & Light, Ft. Myers, Florida 1998-1999

Project Controls Manager. Project controls Manager for a 6-on-1, 1500 MW CC Repowering Project. Responsible for development of a BOQ based project estimate, development of a detailed management control schedule including construction and startup, cost reporting, and schedule maintenance.

PLN Tambak Lorok, Sumitomo, Indonesia 1994-1998

Field Planner. Tracked commodity installation rates, analyzed sub-contractor work schedules, and supervised preparation of weekly construction reports and monthly progress reports. Expedited and tracked equipment deliveries, verified completeness of commodity shipments and authorized airfreights as necessary to support the construction schedule. Coordinated construction activities among contractors, chaired project coordination and review meetings and performed constructibility reviews. Developed and maintained contract administration system to track vendor deficiencies and related backcharges, sub-contractor claims, extra work orders, and insurance claims.

West Java, Ansaldo, Indonesia

Field Project Controls Manager. Developed initial construction and commissioning schedule for a 400 MW coal fired project in Indonesia.

PLN-Muara Karang, Sumitomo, Indonesia 1994

Material Control Engineer / Expediter. Developed a material control program to inventory, store, and maintain material and equipment prior to crection. Expedited vendors and performed shop inspections. Coordinated delivery and unloading schedules. Trained and supervised local engineering staff to assist in material control process.

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PLN-Tambak Lorok, Sumitomo, Indonesia 1993-1994

Project Planner. Developed a complete CPM based project schedule including engineering, procurement, construction, and commissioning for a 500 MW combined cycle project. Assisted in negotiating sub-contractor and reviewing contract documents. Activities required coordination and negotiations among multiple firms and engineering disciplines.

Israeli Electric Reference Plant, Israel 1993-1994

Project Planner. Developed a reference plant schedule for the Israeli Electric Corporation (IEC) based on IEC standards and specifications and Black & Veatch scheduling philosophy. Provided technology transfer of Black & Veatch procedures and taught planning and scheduling principles and techniques to IEC engineers.

Cairo South, EEA, Cairo, Arab Republic of Egypt 1992-1994

Project Plamer. Responsible for the development of a detailed management control schedule for a 150 MW combined cycle project. Worked with onsite engineers to develop an integrated engineering / construction schedule. Responsibilities included maintaining the schedule, monitoring design and construction progress, cost control, and invoicing for monthly progress payments.

Gadong Power Station, Brunei

Project Planner. Responsible for development of a detailed engineering, procurement, and construction schedule. Also responsible for developing and monitoring cost control procedures.

PLN-Muara Karang, Sumitomo, Indonesia 1993

Field Planner. Responsible for initial development of a detailed construction schedule. Developed prime contract invoicing procedures.

Clover Station, Old Dominion Electric Cooperative, Clover, Virginia 1992-1993

Project Planner. Responsibilities included maintaining a management control schedule for two 400 MW pulverized coal units, preparing monthly progress reports both for internal control and for owner review, and invoicing for monthly progress payments. Also responsible for reviewing contractor construction / startup schedules.

Suralaya, PLN, Indonesia 1992

Project Planning. Responsible for the training of an associate on the principles of scheduling and the techniques primavera project planner.

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Black & Vestch

MARK A. MCDERMOTT

Taichung, Taiwan Power Company, Taiwan

1992

Proposal Planner. Developed proposal schedules for four flue gas desulfurization units.

San Bernardino Repowering, San Bernardino, California

Proposal Planner. Developed summary CPM schedule for a combustion turbine repowering project.

Mulberry, Florida

1992

Project Planner. Responsible for developing progress measurement tools. Assisted in the development of the management control schedule.

East Kentucky Power Cooperative, Kentucky

1992

Assistant Planner. Developed construction schedule for an ash handling retrofit project.

Boston Edison, Boston, Massachusetts

1991

Assistant Planner. Assisted in the development of a construction schedule for a balance draft project. Maintained cost control spreadsheets for project management use.

City of Ames, Iowa, Engineering Department

Ames, Iowa

1991

Inspector. Supervised construction of a storm sewer installation project. Supervised crews doing reconstruction work for various streets throughout the city. Supervised development of a residential subdivision including underground utilities, site development, and paving. Responsibilities included surveying, proctor density testing, concrete testing, and approving payment applications.

Portzen Construction

Dubuque, Iona

1989-1990

Light-commercial and residential construction.

Techiggfrie Excavating

Dubuque, Iowa

1988

Highway and excavating construction work.

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Project Civil-Structural Engineer



Education

Associates, General Studies, Iowa State University, 1966 Bachelors, Construction, Iowa State University, 1968

Professional Registration Engineer (PE), Arizona, 1980 Engineer (PE), Missouri, 1976 Engineer (PE), Wisconsin, 1986 Engineer (PE), Texas, 2000

Total Years of Experience 34

Joined B&V

Professional Associations American Society of Civil Engineers

Language Capabilities English Mr. Kohns is a civil-structural engineer for coal fired power stations. He previously served as a project engineer for combined cycle power stations, and in the past was assigned to Bulk Materials Handling Section as lead structural engineer. His primary responsibilities involved supervision and standardization of designs for structures serving coal handling equipment. These responsibilities also included the production of structural designs, specifications, and contract administration. Mr. Kohns' experience includes project engineering of several projects for the addition of coal blending to existing power plants, design of steam transmission mains, feasibility studies, and design of reinforced concrete foundations and flue gas ductwork.

Summary of Coal Experience: Larry has been involved in over 6,000 MW+ with several additional miscellaneous coal assignments since the 1970s.

Description of Project Experience

Tanjung Jati B Station; CEPA; Java, Indonesia
2002-Present

Project Department Engineer. Provide structural engineering supervision for a coal fired power station, consisting of two units for a total generating espacity of 1,220 MW.

Rio Nogales Power Project; Constellation Power, Inc.; Seguin, Texas 2000-2001

Project Department Engineer. Provide civil-structural engineering supervision for the 3-on-1 combined cycle plant rated at 800 MW.

Coke Gastfication; Farmland Industries; Coffeyville, Kansas 1998-1999

Bulk Material Handling Project Manager. Provided project management for the coke handling provisions of the project with supervision responsibility of administrative, civil, structural, and mechanical disciplines.

Power Station Evaluation; Joint Venture Utility; United Kingdom 1999

Bulk Materials Handling Project Engineer. Provided plant inspections and financial evaluations for several power stations in Wales and Britain to aid in the transfer of government owned utilities to private industry.

Cement Plant Addition; Bolnam Industries; South Carolina 1997

Bulk Materials Handling Project Engineer. Provided plant arrangements feasibility studies, cost estimates, and prepared specifications for the revisions to a cement plant.

Sherburne Station; Northern States Power; Minnesota 1997

Bulk Materials Handling Structural Engineer. Provided plant arrangements feasibility studies, cost estimates, and prepared specifications for the revisions to a cement plant.

Tanjung Juti B Station; CEPA; Java, Indonesia 1997

Bulk Materials Handling Lead Structural Engineer. Provided structural supervision and checking for the coal handling structures for the Tanjung Jati B Station.

Study; Western Resources; Kansas

Bulk Materials Handling Lead Structural Engineer. Provided structural review and cost estimating for evaluations and studies for coal handling improvements for Western Resources at Lawrence and Tecumseh, Kansas.

Board of Public Utilities; Kansas City, Kansas 1997

Bulk Materials Handling Lead Structural Engineer. Provided structural design supervision and procurement of structural support of five new dust collectors for the Board of Public Utilities.

Clover Station; ODEC; Virginia

Bulk Materials Handling Lead Structural Engineer. Provided field investigations and office engineering review of Warranty Issues for ODEC at the Clover Station.

Energy Center Kladno; NRG; Czech Republic 1996

Structural Project Engineer. Provided engineering review and evaluations for a bid specification and bid evaluation tasks for NRG at the Energy Center Kladno in Czech Republic.

Field Investigation Sunoco Project, South Carolina
1996

Bulk Materials Handling Lead Structural Engineer. Provided structural checking, field investigation, and redesign for an overstressed conveyor truss at the Sunoco Project in South Carolina.

Coal Handling Quindaro Station; Board of Public Utilities 1996

Bulk Materials Handling Lead Structural Engineer. Provided structural field investigations and structural specifications for five new dust collectors throughout the entire coal handling system at Quindaro Station for the Board of Public Utilities.

Coal Drying Plant; CarbonTec Energy; Wyoming 1996

Bulk Materials Handling Project Manager. Provided cost estimating, material handling Isyouts, specifications, and structural design coordination for a coal drying plant near Gillette, Wyoming, for CarbonTec Energy.

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LaCygne Station; KCPL; LaCygne, Kansas

Project Engineer. Provided supervision for the design, fabrication, and construction of support for a new gravity takeup system at LaCygne Station for KCPL.

Dust Collection System Fisk and Wankegan Stations; Commonwealth Edison; Chicago, Illinois

1995

Bulk Materials Handling Lead Structural Engineer. Provided design supervision for a revised dust collection system at the Fisk and Waukegan Stations for Commonwealth Edison at Chicago, Illinois.

New Beit Feeders laten Station; KCPL

1995

Project Engineer. Provided supervision for the design, fabrication, and construction of support for new belt feeders above the crushers at Istan Station for KCPL.

Montrose Station; KCPL; Kansas

1994-1995

Project Engineer. Provided a technical study and prepared a technical specification to convert an existing bottom dump structure to a rotary car dumper at Montrose Station for KCPL.

New Rotary Car Dumper; Texas Municipal Power Agency; College Station, Texas

1994

Project Engineer. Provided a technical study, including structural design supervision for the feasibility of converting an existing truck dumper into a new rotary car dumper for Texas Municipal Power Agency at College Station.

Conveyor Support Revisions Allen King Station; Northern States Power 1994

Bulk Materials Handling Project Structural Engineer. Provided supervision for design on conveyor support revisions required to accommodate new gravity takeups at the Allen King Station for Northern States Power.

Dust Collector; Arizona Electric Power; Tucson, Arizona 1991

Bulk Materials Handling Project Structural Engineer. Prepared structural specifications and provided supervision of design for Arizona Electric Power at Tucson, Arizona to support a new dust collector in the existing boiler building.

Feasibility Study; Wyodak Resource Development Corporation; Gillette, Wyoming
1994

Bulk Materials Handling Lead Structural Engineer. Aided in preparing a feasibility study for NRG at the Belle Ayr Mine in Wyoming to provide a coal drying facility. Provided conveyor towers and a crusher building structural capacity study, design

Konns Lanv R.

supervision, procurement, and field construction management for the Wyodak Resource Development Corporation at Gillette, Wyoming.

LaCygne Station; KCPL; Kansas 1994

Project Engineer. Prepared structural specifications and provided design supervision at the La Cygne Station to enclose conveyor trusses for KCPL.

Gibbons Creek Station; Texas Municipal Power Agency; Texas 1993 – 1994

Project Engineer. A new 4-1/2 mile overland coal conveyor system for Texas Municipal Power Agency at Gibbons Creek Station.

Leland Olds; Basin Electric; North Dakota 1993

Bulk Materials Handling Lead Structural Engineer. Structural specifications and design for modification of Unit 1 coal reclaim system for Basin Electric at Leland Olds.

Dave Johnston Station; PacifiCorp; Wyoming 1992 - 1993

Project Engineer. Structural specifications and design for dust collection support for PacifiCorp's Dave Johnston Station.

Perusahaan Umum Listrik Negara; Suralaya, Indonesia

Bulk Materials Handling Lead Structural Engineer. Prepared structural specifications for Perusahaan Umum Listrik Negara in Suralaya.

Elk River Station; United Power Association; Elk River, Minnesota 1991

Project Engineer. Retrofit construction project to improve the handling of fly ash and bottom ash for an existing refuse burning power plant.

St. Paul, Minnesota

1991

Project Engineer. Feasibility study for a petroleum refinery to improve the handling of coke byproducts.

Shawnee Steam Plant; Reuter Recycling; Illinois

Engineering Manager / Project Structural Engineer. Three sorbet injection/gas reburning projects at Central Illinois Power & Light, Illinois Power, and City Water Light and Power.

Various

1990

Project Structural Engineer. Fessibility studies and cost estimates for coal handling systems for NRG Cypress, TVA Bellefonte, Puerto Rico, Orlando, and Virginia Power.

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Reuter Recycling of Florida, Inc; Pembroke Pines, Florida 1989 - 1990

Project Engineer. Project assessment report.

Paducah, Kentucky

1989 - 1990

Project Engineer. Retrofit of two coal screens for an atmospheric fluidized bed boiler.

Genoa; Dairyland Power; Lacrosse, Wisconsin

1987 - 1988

Project Structural Engineer. Coal blending project.

Whitewater; Richmond Light and Power; Richmond, Indiana

Project Structural Engineer. Sorbet injection addition.

Valley Plant; Wisconsin Electric Power; Milwaukee, Wisconsin 1985 - 1987

Project Structural Engineer. Steam heating addition from the Valley Plant to an existing system in downtown Milwaukee.

Department of Energy; Oak Ridge, Tennassee

1986

Project Structural Engineer. Supervised structural design of a new truck unloading system for the coal handling system.

Northern States Power Company; Becker, Minnesota

1983 - 1986

Structural Lead Engineer. Organized and supervised structural design team to produce the plant arrangements and structural steel for the coal handling systems.

Sacramento Municipal Utility District; Sacramento, California

Project Structural Engineer. Performed a feasibility study for a proposed 25-mile gas line.

Kansas City, Missouri

1985

Project Structural Engineer. Performed laboratory tests studying the coal flow in silo storage structures and rotary plow feeders. Produced videotape and report summarizing the test results.

Orlando Utilities Commission; Orlando, Florida

1982 - 1984

Structural Lead Engineer. Organized and supervised the structural design team to produce plant arrangements and structural steel design for the coal handling system.

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Intermountain Power Project; LADWP; Delta, Utah 1981 – 1984

Structural Lead Engineer. Supervised the structural design for the foundations and structural steel for the coal handling, limestone handling, and conditioned sludge handling.

Coronado Station / Salt River Project; St. Johns, Arizona 1980 - 1982

Project Structural Engineer. Coal mixing system project.

Detroit Edison; Detroit, Michigan

1980 - 1982

Project Structural Engineer. Dust control addition for five power generation plants.

Various

1979 - 1980

Structural Design Engineer. Supervision and guidance of structural design for Bulk Materials Handling Group. Directed engineers in designing foundations for coal reclaim and coal railcar dump structures for Arizona Public Service Company and structural support for a coal crusher for Kansas Power & Light.

Northern States Power Company; Becker, Minnesota 1979

Assistant Project Structural Engineer. General supervision of structural steel design of central plant and coal handling structures for Unit 3. Duties also included steel contract administration.

Sibley Station; Missouri Public Service; Sibley, Missouri 1978 – 1979

Project Structural Engineer. Supervision of structural steel and foundation design for a modification and addition to the coal handling system of the station. Duties included the preparation and administration of the steel and foundation contracts.

Various

1978

Assistant Project Structural Engineer. Wrote system descriptions for structural steel design and site arrangement.

Various

1975

Assistant Project Structural Engineer. Supervision of draftsmen and engineers with regard to solving field problems during construction in the area of steel structures, concrete foundations, and architectural coordination.

Various

1975

Associate Structural Engineer. Layout, coordination, analysis, and design of structural steel, breeching, girts, and concrete foundations.

Kohns Larry



LARRY R. KOHNS

Various 1970

Associate Structural Engineer. Layout of structure framing systems, floors, and horizontal and vertical bracing. Designed framing details.

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Control and Electrical Project Engineer

Control System
Strategies, Troubleshooting,
Commissioning and
Tuning

Education Bachelors, Electrical, University

Bachelors, Electrical, University of Kansas, 1975

Professional Registration Engineer (PE), Florida, 1992 Engineer (PE), Kanass, 1983 Engineer (PE), Massachusetta, 1992

Engineer (PE), Nebraska, 1993 Engineer (PE), Missouri, 2000 Engineer (PE), Colorado, 2001 Engineer (PE), Kentucky, 2001

Total Years Experience 29

Joined Black & Vestch 1974

Professional Associations Instrument Society of America

Language Capabilities English, Spanish (Novice) Joseph G. Callison is a control and electrical project engineer currently assigned to manage the control and electrical design of a combined cycle cogeneration plant in Beaumont, Texas and a coal fired power plant in central Wisconsin.

Callison is experienced in the design of electrical and control systems for coal, oil, gas, and refuse fueled power plants ranging in size from 30 MW to 820 MW. The project types include foreign and domestic, new and retrofit, design, design and construct, and turnkey. His assignments often include both office design and field services.

Representative Project Experience

Weston Unit 4; Wisconsin Public Service Resources Corporation; Central Wisconsin
2003-Present

Project Control / Electrical Engineer. Managed the control and electrical design for a new 520MW coal fired power plant.

Beaumont Cogeneration Power Project; Exxon Mobil; Beaumont, Texas 2003-2004

Project Control / Electrical Engineer. /Managed the control and electrical design for a new 3x3x0 combined cycle cogeneration power project.

Black & Veatch Corporation; Overland Park, Kansas 2001-2003

Project Control. / Electrical Engineer. Managed the control and electrical conceptual design and cost estimates for various prospective coal fueled power plants.

San Juan Unit 5; Public Service Company of New Mexico; Farmington, New Mexico

200I

Project Control / Electrical Engineer. Managed the control and electrical conceptual design and cost estimate for a 500 MW coal-fueled unit addition with supercritical cycle.

Thoroughbred Energy; Peabody Holding Company; Central City, Kentucky

Project Control / Electrical Engineer. Managed the control and electrical conceptual design and cost estimate for two 750 MW unit coal-fueled plant.

Rawhide Combustion Turbine Project; Platte River Power Authority; Wellington, Colorado 2001

Project Control / Electrical Engineer. Managed the control and electrical design for three 90 MW simple cycle combustion turbines.

Aries Power Plant; MEP Pleasant IIIII, LLC; Pleasant Hill, Missouri 1999 - 2001

Project Control / Electrical Engineer. Managed the control and electrical design for a 600 MW combined cycle EPC project.

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Hines Energy Complex; Florida Power Corporation; Polk County, Florida 1999

DCS Startup Engineer. On-site assistance with control system tuning and adjustments in preparation for final commissioning tests.

San Jose Power Station; TECO Power Services; Guatemala, C.A. 1997 -- 1999

Project Control / Electrical Engineer. Managed control and electrical design of a 120 MW coal-fired EPC joint venture project. Provided on-site assistance with startup, commissioning, and control system tuning and adjustments.

BP Kwinana Cogeneration; Mission Energy Holdings; Kwinana, Australia 1995 - 1996

Project Control / Electrical Engineer. Managed control and electrical design of an EPC 110 MW combined cycle cogeneration project. Provided on-site assistance with startup, commissioning, and control system tuning and adjustments.

Quindaro Station; Board of Public Utilitles; Kansas City, Kansas 1990 -- 1995

Project Control / Electrical Engineer. Managed control and electrical design of coal mill inerting system, coal conveyor fire protection system, and replacement data acquisition computer system.

New Boston Tall Chimney / Balanced Draft Modifications; Boston Edison Company; Boston, Massachusetts 1990 - 1995

Project Control Engineer. Managed control design modifications to add variable frequency induced draft faus to two 380 MW oil and gas fueled units and replaced continuous emissions monitoring system.

Sarpy County CT 3; OPPD; Bellevue, Nebraska 1993 – 1994

Project Control / Electrical Engineer. Managed control and electrical design of a 100 MW combustion turbine peaking and black start plant.

Cairo South Combined Cycle; ABB SUSA; Cairo, Arab Republic of Egypt 1991 – 1994

Project Control / Electrical Engineer. Managed control and electrical design of a 150 MW combined cycle combustion turbine plant for turnkey contractor under US Aid Grant.

Crystal River; Florida Power Corporation; Crystal River, Florida 1991 - 1992

Project Control / Electrical Engineer. Managed control and electrical design to add startup injection water pumps and valves to two 400 MW coal fueled units.

Crystal River; Florida Power Corporation; Crystal River, Florida 1989 - 1992

Lead Control Engineer. Design of control systems for a 700,000 g.p.m. seawater helper cooling tower and for circulating water flow control at two 400 MW coal fueled units.

Turner, Higgins, and Suwannee Plants; Florida Power Corporation; Florida 1990 - 1991

Engineering Manager. Managed mechanical, control, and electrical design of modifications to eight oil fueled units to allow circulation of heavy oil for warmup.

Pulan Seraya; Singapore

1990

Control Engineer. Review of control system vendor drawing submittals for Owner.

Bang Pakong; Electricity Generating Authority of Thailand (EGAT); Montaburi, Thailand 1990

Control Engineer. Review of distributed control system functional logic design and coordination with Japanese manufacturer.

Senoko; DRPL; Singapore

1989

Control Engineer. Member of a team performing a study for conversion of an oil fueled unit for fuel gas firing and preparing technical specifications for the modifications.

Channel Island Power Station; Northern Territory Electric Company; Darwin,

1988 - 1989

Control Engineer. Developed performance test procedures, performed calculations, and prepared report for a 200 MW combined cycle combustion turbine plant.

Turner Plant Unit 4; Florida Power Corporation; Sanford, Florida 1988 - 1989

Lead Control Engineer. Design of control system modifications to add induced draft fans to an 80 MW oil fueled unit.

Argus Cogeneration Plant; Trona, California 1988

Control Engineer. Preparation of performance test procedures for a 100 MW circulating fluidized bed boiler power plant with cogeneration of steam.

Mid-Connecticut Resource Recovery Facility; CRRA; Hartford, Connecticut 1988

Resident Control Engineer. Assisted in commissioning of a refuse derived fuel and coal fueled plant consisting of three stoker type boilers and two 30 MW steam turbines.

Greater Detroit Resource Recovery Facility; CE RRS; Detroit, Michigan

Lead Control Engineer. Design of control systems for a 2,000 ton-per-day refuse derived fuel and oil fueled plant consisting of three stoker type boilers and a 70 MW steam turbine with 550,000 pph steam cogeneration to an offsite heating system.

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Intermountain Generating Station; LADWP; Lynndyl, Utah 1982 - 1986

Control Engineer. Designed controls for various plant systems, main control panels, and control room arrangement for two 820 MW coal fueled units. Responsibilities included the unit control system and protection system. Coordinated preparation of unit performance test procedures, testing, evaluation, and preparation of report.

Louisa Generaling Station; LIG&E; Muscatine, Iowa 1979 - 1981

Control Engineer. Designed controls for various plant systems and main control panels, as well as coordinated unit control system design for a 650 MW coal fueled plant with startup / bypass system for rapid startup and cycling operation. Provided operator training on startup / bypass system.

Council Bluffs Unit 3; LP&L; Council Bluffs, Iowa 1975 - 1979

Control Engineer. Designed controls for various plant systems for a 650 MW coalfueled plant. Resident engineer responsible for all control related construction activities through commissioning, performance testing and final acceptance.



NICHOLAS J. ALTHAUSER

Project Mechanical Engineer

Mechanical Engineering

Education:

Bachslors, Mechanical, University of Missouri at Columbia, 1976 Bachslors, Mathmatics, University of Missouri at Columbia, 1972

Professional Registration:

2004, Wisconsin, 36888 1995, Taxas, 77130 1992, Florida, 45447 1991, South Datota, 4971 1983, Missouri, E-20552

Total Years Experience: 26

Joined B&V: 1978

Language Capabilities: English Nicholas J. Althauser is a Project Mechanical Engineer and a member of the Systems Design Section of the Mechanical Engineering Department. He has been responsible for the Mechanical Engineering effort for several combined cycle plants and has experience in coal and oil fired facilities.

Summary of Coal Experience: Nick has been involved in five coal projects, totaling nearly 2,700 MW.

Description of Project Experience

Weston Unit 4; Wisconsin Public Service; Wausau, Wisconsin 2003-Present

Project Mechanical Engineer. 600 MW Supercritical pulverized coal unit.

Allegheny Energy Units 3, 4 & 5; Allegheny Energy Supply; Springdale, Pennsylvania 2000-2003

Technical Project Manager. 500 MW combined cycle plant.

FPLE Rhode Island State Energy Project; Providence Road Island 2000-2001

Engineering Manager. 500 MW combined cycle plant.

AES Meridian III; Merida, Yucatan, Mexico 1998-2000 Engineering Manager. 480 MW combined cycle plant

Pasadena Cogeneration Project; Phillips Houston Chemical Complex; Pasadena, Texas 1996-1998

Project Mechanical Engineer. Responsible for mechanical engineering of a cogeneration project supplying steam to the Houston Chemical Complex, consisting of a 180 MW Combustion Turbine, 85 MW Steam Turbine, and three 200,000 lb / hr suxiliary boilers.

Termovalle Project; Cali, Colombia 1995-1996

Project Mechanical Engineer. 200 MW gas / oil fired plant.

Cleburne Cogeneration Project; BVZ Power Partners; Cleburne, Texas 1994-1996

Project Mechanical Engineer. 260 MW combined cycle cogeneration plant.

Mulberry Cogeneration Facility; Central & Southwest Services; Mulberry, Florida
1991-1994

Project Mechanical Engineer. 120MW combined cycle cogeneration plant.

Cane Island Units 1& 2; Kissimmee Utility Authority 1991-1993

Project Mechanical Engineer. 120MW combined cycle plant, 40MW seroderivative simple cycle plant.



NICHOLAS J. ALTHAUSER

NRG Energy Inc., Kansas City, Missouri 1990

Mechanical Engineer. Steam generator building optimization study and economic and engineering analysis documenting the optimum location of equipment for a 350 MW coal-fired power plant.

AES Thames, AES, Montville, Connecticut 1989

Resident Mechanical Engineer. Responsible for construction completion, testing, and startup for mechanical construction contractor. Daties included construction surveillance, scheduling, development of testing procedures, and equipment startup.

AES Thames, AES, Montville, Connecticut 1987-1988

Mechanical Engineer. Responsible for system design of boiler related systems for the 200 MW coal fueled circulating fluidized bed boiler cogeneration plant.

Intermountain, Intermountain Power, Delta, Utah 1981-1986

Mechanical Engineer. Responsible for mechanical design of turbine-related systems for the 2 x 820 MW coal fueled Intermountain Power Project.

Semarang 3, Perusahann Umum Listrik Negara, Semarang Indonesia 1978-1980

Mechanical Engineer. Responsible for mechanical system design of the 200 MW heavy oil fired thermal plant.

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Engineering Manager

Engineering Management

Education
Bachalors, Mechanical, South
Dekota State University, 1972

Carlin C. Knudsen, Mechanical Engineer is assigned to the Engineering Management Department of the Energy Division of Black & Veatch. His primary responsibilities involve coordinating system design between the different disciplines, preparation of construction specifications, equipment procurement, preparing Project Design Manuals, and verifying conformance to Black & Veatch design standards on fossil power plant design projects. System design activities include development of system design specifications, piping and instrument diagrams, one-lines, logics, and design control lists. Equipment procurement activities include production of procurement specifications, bid evaluations, equipment contract negotiations, and equipment contract administration including shop drawing review and monitoring contractor performance and schedule. Major responsibilities include directing and monitoring the work of discipline lead engineers assigned to the project team.

Summary of Coal Experience: Carlin has been involved in nine coal projects, totaling over 3,300 MW.

Description of Project Experience

CNC Module 5, British Oxygen Company, Mexico 2004-Present

Engineering Manager. Responsible for overall project engineering for a 55 MW cogeneration power plant (CT and HRSG; no steam turbine) providing power and steam to an air separation plant. The project consisted of adding a fifth module to an existing facility.

Stuart and Killen Stations, Dayton Power and Light, Dayton, Ohio 2004-2004

Engineering Manager. Responsible for overall project conceptual engineering and cost estimating for flue gas scrubber retrofits on four 600 MW coal fired units at the Stuart Station and one 600 MW coal fired unit at the Killen Station. Conceptual engineering included preparation of System Design Specifications, Arrangement Drawings, P&IDs, Electrical One-lines, Procurement Plan, Construction Plan, and Project Schedule.

Beaumont Cogeneration, ExxonMobil, Beaumont, Texas 2003-2004

Engineering Manager. Responsible for overall project engineering for a 3 x 0 450 MW cogeneration power plant (CTs and HRSGs; no steam turbine) providing power and steam to a refinery.

Ilunterstown, Reliant, Gettysburg, Pennsylvania 2001-2003

Engineering Manager. Responsible for overall project engineering for a 3 x 1 890 MW combined cycle power plant.

Takoradi, TICO, Ghana, Africa 1999-2001

Lead Mechanical / Engineering Manager. Responsible for mechanical department engineering and procurement and overall project engineering coordination for two 100 MW simple cycle combustion turbines being added to an existing power plant site.

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Gresik, BOC, Indonesia 1997-1999

Engineering Manager / Project Mechanical Engineer. Responsible for mechanical department procurement and engineering and overall project engineering coordination for a 42 MW combined cycle cogeneration power plant.

Castle Peak Wastewater Recycle, CP&L, Hong Kong 1996-1997

Project Mechanical Engineer. Responsible for mechanical department engineering for modifications to an existing coal fired multi-unit power station to recycle waste water.

Torghae, KOPEC, Korea 1994-1997

Project Mechanical Engineer. Responsible for review of the Owner's conceptual design and assisting the Owner in the detailed system design of a 200 MW fluidized bed power plant.

Suralaya, PLN, Indonesia 1991-1996

Project Mechanical Engineer. Responsible for writing system design specifications and technical specifications for a series of EPC contracts for three 600 MW pulverized coal power plants.

Cebu, Salcon, Philippines 1994-1995

Project Mechanical Engineer. Responsible for the assessment of an existing power plant and the writing of equipment and construction specifications to rehabilitate the plant. The plant consisted of six 6.3 MW diesel engine generators, two 27 MW gas turbine generators, and two 50 MW coal / oil fueled steam turbine generator units.

Virginia Power Reference Plant, Virginia Power, Virginia 1990-1991

Assistant Project Mechanical Engineer. Responsible for writing system design specifications and equipment specifications as part of an EPC specification for a 450 MW pulverized coal power plant.

Barbers Point, AES, Hawaii 1989-1990

Assistant Project Mechanical Engineer. Responsible for a complete review of mechanical system design, fabricated pipe specification, pipe support specification, and administration of the mechanical portion of a general construction specification for a 200 MW fluidized bed power plant.

Argus, Argus Cogen, California 1988-1989

Assistant Project Mechanical Engineer. Responsible for design of mechanical systems and writing of mechanical equipment and piping specifications and associated contract administration for a 100 MW fluidized bed power plant.

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Page • 2

CARLIN C. KNUDSEN

Salt River, Salt River Power Authority, Arizona 1987-1988

Mechanical Engineer. Responsible for design of mechanical systems and writing of mechanical equipment and piping specifications and associated contract administration for a 450 MW pulverized coal power plant.

Oak Ridge, US Government, Tennessee 1985-1986

Mechanical Engineer. Responsible for the design of air exhaust, filtering, and scrubbing systems for a weapons grade nuclear fuel processing facility.

Orlando, OUC, Florida 1981-1985

Mechanical Engineer. Responsible for writing system design specifications, mechanical system design, equipment and piping specifications and associated contract administration, and preparation of portions of the mechanical construction specification for a 450 MW pulverized coal power plant.

Black Fox, PSO, Oklahoma 1978-1980

Mechanical Engineer. Responsible for selected mechanical system design for two 1,200 MW nuclear-powered power plants.

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L. KEITH BEAUCHAMP

Pleasants Station; Allegheny Power; Parkersburg, West Virginia 1994-1997

Project Chemical Engineer. Responsible for development of general study on water use for an existing two-unit coal fueled power plant.

Termopocifico; PTP; Cali, Columbia 1995-1996

Project Chemical Engineer. Responsible for design and procurement of water and wastewater treatment systems associated with a 400 MW coal fueled power plant.

Southern Thailand; EGAT; Thap Sakae, Thailand 1993-1994

Project Chemical Engineer. Responsible for development of conceptual design and capital cost estimates for water and wastewater treatment systems for a multi-unit (4,000 MW total) coal fueled power plant conceptual design study.

Coal Creek Station; CPA; Underwood, North Dakota 1993-1994

Project Chemical Engineer. Responsible for evaluation of cycle makeup treatment system, cycle chemical feed system, and circulating water chemical feed system as part of a capacity upgrade study for an existing two-unit (1,100 MW total) lignite fueled power plant.

Reid Gardner Station; Nevada Power Company; Las Vegas, Nevada 1993-1994

Project Chemical Engineer. Responsible for system study for condensate polishing system retrofit to existing four-unit coal fueled power plant.

Reid Gardner Station; Nevada Power Company; Las Vegas, Nevada 1992-1994

Project Chemical Engineer. Responsible for development of general study on water and wastewater management for an existing four-unit coal fueled power plant.

Canadys Station; SCE&G; Canadys, South Carolina 1993

Project Chemical Engineer. Responsible for detailed design and procurement of a service water pretreatment system retrofit to an existing coal fueled power plant.

Quindaro Station; Board of Public Utilities; Konsas City, Kansas 1990-1993

Project Chemical Engineer. Responsible for detailed design and procurement of demineralization system and water quality control system retrofit to an existing two-unit coal fueled power plant.

Black & Vestch

Southeast Operations Manager / Project Fleid Manager

Construction
Management/
General Contractor

Education BS, Civil Engineering, South Dakota Stata University, Brookings, South Dakota, 1965

Professional Registration Engineer (PE), Texas, 1991, Engineer-in-Training (EIT), Kansas, 1986

Total Years of Experience 32

Joined B&V 1985

Professional Associations American Society of Civil Engineers

Language Capabilities English Thomas O. Magdanz, Jr. is currently the Southeast Operations Manager for the Black & Veatch Energy Engineering & Construction (EE&C) Department. His construction experience with power plant facilities includes the construction of eight General Electric (GE) 7FA simple cycle gas turbines and related auxiliaries, a 1,200 megawant (MW) 6-on-1-1/2 combined cycle power plant, a 500 MW 2-on-1 combined cycle power plant, an 80 MW coal flueled power plant, a 250 MW fluidized bed cogeneration power plant, and a 500 MW coal flueled power plant. Magdanz was previously a structural engineer responsible for structural steel and concrete foundation design for Black & Veatch.

Representative Project Experience

Various Projects, Black & Veatch Raleigh, Raleigh, North Carolina 2004-Present

Southeast Construction Operations Manager. Black & Veatch. Responsible for assuring availability of resources with proper expertise and tools to support assigned construction project execution. Accountable for success of construction project execution. Has authority to allocate resources and make construction execution decisions for assigned area in accordance with Division Policies, Standards, Guides and Contractual commitments. Reports directly to the Director of Construction. Responsibilities include providing construction support for regional construction projects and proposals; directing the administration of construction personnel for regional construction projects; developing construction execution plans that minimize cost and duration of construction activities for projects and proposals; monitoring, evaluating, and reporting on performance of assigned construction projects to regional and divisional management; and providing recommendations to Director of Construction regarding project staff assignments and teams. Also act as liaison between offices for all construction related matters; communicate lessons learned; directs corrective action for discipline problems or poor performance within the region, and keep Department and Human Resources Departments involved and informed as required; enforce and interpret division and department policies, standards, and procedures; provide regional construction support for international offices and international project offices for proposals, project planning and project execution; provide supervision, training, development, and performance management of direct reports; and adhere to safety and quality standards as applicable to duties and accountabilities.

Trimble County Phase 2, Louisville Gas & Electric (LG&E), Bedford, Kentucky
2003-2004

Construction Manager. Black & Vestch. Reported directly to the Project Field Manager. Responsibilities included setup of site office and all construction site utilities and facilities; setup of all site procedures related to project control and construction execution; construction subcontracting planning bidding, evaluation, negotiations, and construction execution; and daily construction subcontractor planning and execution coordination. Also responsible for construction subcontract administration; field engineering resolution and execution as well as all drawing control; management of full staff of engineers, superintendents, and technicians in civil/structural, mechanical, electrical, and instrumentation/control disciplines; and coordination with safety and health

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department to ensure a safe working environment using the Black & Vestch Safety and Health Management System.

Tiger Creek Project, Louisville Gas & Electric (LG&E), Sundersville, Georgia 2002-2003

Construction Manager. Black & Veatch. Reported directly to the Project Field Manager. Responsibilities included setup of the site office and all construction site utilities and facilities; setup of all site procedures related to project control and construction execution; construction subcontracting planning, bidding, evaluation, negotiations, and construction execution; and daily construction subcontractor planning and execution coordination. Also responsible for construction subcontract administration; field engineering resolution and execution as well as all drawing control; management of full staff of engineers, superintendents, and technicians in civil/structural, machanical, electrical, and instrumentation/control disciplines; and coordination with safety and health department to ensure a safe working environment using the Black & Veatch Safety and Health Management System.

Fort Myers Repowering Project, Florida Power & Light, Fort Myers, Florida 1999-2002

Construction Manager. Black & Veatch. Responsible for construction of the 1,200 megawatt (MW) 6-on-1-1/2 simple cycle and combined cycle Fort Myers Repowering Project. Managed all Owner-contracted furnish and erect contracts. Major construction contracts included site development, civil construction, mechanical and electrical construction, heat recovery steam generator (HRSG) erection, and the 12 bay cooling tower. Craft labor included both union and non-union to a peak level of 900 for the project, which was built in three phases. Phase 1 included building six General Electric (GE) 7FA combustion turbine (CT) units, each with a bypass stack, while at the same time building the six heat recovery steam generators 9HRSGs). Phase 2 included the piperack and all piping from the HRSGs to a common position prior to the turbines, and Phase 3 was a demolition phase that included all of the remainder of the piping and the refurbishment of two turbines. Performed the duties of Project Field Manager for the last 5 months of the project.

Ulines Energy Complex, Florida Power Corporation, Bartow, Florida 1997-1999

Project Field Manager. Black & Veatch/Overland Contracting, Inc. Responsible for construction of a 500 megawatt (MW) 2-on-I combined cycle power plant, including the construction management of all Owner-contracted equipment furnish contracts. In addition to the above responsibilities, managed the direct hire construction effort as the general contractor, performing all major construction activities for the project. Peak manpower level for the project reached 400 craft employees.

Sonoco Boiler Number 9, Foster Wheeler Pyropower Inc., Hartsville, South Carolina
1996-1997

Project Field Manager. Black & Veatch. Served as a member of the Black & Veatch/Zachry (BVZ) construction team during the construction and startup of a 120,000 pound per hour compact design fluidized bed multifueled boiler. Fuels

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Black & Vestch



included coal, wood, and waste paper. Responsibilities included the management of the construction, startup, and engineering field teams.

Neil Simpson Unit 2, Black Hills Power & Light, Gillette, Wyoming 1993-1996

Project Field Manager/Construction Manager/Systems Manager. Black & Veatch. Responsible for construction and startup of an 80 megawatt (MW) coal fueled power plant. Managed the project as well as the construction, startup, and contract coordination for all construction contracts. Monitored schedule and acted as civil-structural field liaison.

Cedar Bay, Applied Energy Services, Jacksonville, Florida 1993

Construction Manager. Black & Veatch. Managed the construction of a 250 megawatt (MW) fluidized bed cogeneration power plant. Responsibilities included management of construction staff, contract coordination for all construction contracts, schedule monitoring, and resolving all construction cost issues.

Cedar Bay, Applied Energy Services, Jacksonville, Florida 1991-1993

Lead Civil Facilitator. Black & Vestch. Worked on the construction of the 250 megawatt (MW) fluidized bed cogeneration power plant. Responsibilities included coordination of work and resolution of design and construction related problems. Administered contract for the construction of the chimney, ash silos, and cooling tower.

J. K. Spruce Number 1, City Public Service, San Antonio, Texas 1989-1991

Lead Civil-Structural Construction Coordinator. Black & Veatch. Served as Owner's representative during the construction of a 500 megawatt (MW) coal fueled power plant. Responsible for quality control on all phases of work during the construction of the following buildings and structures: boiler, turbine, air quality control system (AQCS), scrubber, baghouse, sewage treatment, water treatment, chimney, and the coal silos.

Kingston Plantation, Rank Development, Inc., Myrtle Beach, South Carolina 1988-1989

Construction Administrator. Black & Veatch. Functioned as Owner's representative, administering the construction contract for 12 six unit town homes. Responsibilities included construction administration, schedule development, resolving construction problems, and reviewing payment applications.

Kingston Plantation, Rank Development, Inc., Myrtle Beach, South Carolina 1988

Construction Administrator. Black & Veatch. Served as Owner's representative, administering the construction contract for a 65,000 square foot multi-use area from ground breaking through final landscaping. The area included a kitchen structure, stage structure, pool bar structure, pool, jacuzzi, volleyball court, and approximately 45,000 square feet of deck area built in a time frame of 8 weeks.

THOMAS O. MAGDANZ, JR.

Responsibilities included construction administration, quality control, schedule monitoring, pay application review, and contract closeout.

Kingston Plantation, Rank Development, Inc., Myrtle Beach, South Carolina 1986-1988

Lead Quality Control Engineer. Black & Vestch (B&V). Functioned as Owner's representative applying B&V's process quality control inspection checklists to inspect all phases of construction for a 17 story condominium and recreation center. Also inspected a 20 story hotel, a 15 story condominium, and 53 room lodge. Prepared construction reports and evaluated monthly application and certification for payment of all jobs.

Kingston Plantation, Rank Development, Inc., Myrtle Beach, South Carolina 1986-1987

Resident Engineer. Black & Veatch. Served as Owner's representative in the construction of a 20 story hotel and a 15 story condominium. Responsibilities consisted of inspections of drilled caissons, concrete construction, structural framing, finishes, and some mechanical inspections. Prepared construction reports and evaluated monthly application and certification for payments and change orders.

Recycling Facility, Mid-Connecticut Resource Recovery, Connecticut 1986

Civil Engineer. Black & Veatch. Conducted Power Plant Analysis and Design-Structural (PPADS) analysis of air heater towers in conjunction with Structural Domain Limits (STRUDL) analysis and design of air duct and gas duct trusses. Analysis and design of ash recycle and condensate building were conduced in conjunction with analysis and design of bottom ash conveyor and distributor conveyor.

Recycling Facility, Mid-Connecticut Resource Recovery, Connecticut

Civil Engineer. Black & Veatch. Performed Power Plant Analysis and Design-Structural (PPADS) analysis of demolished generation building and design of yard structures (scrubber control additive preparation, ash storage).

Various Construction Projects, Brookings, South Dakota 1983-1984

Contractor. Self-employed. Contracted small construction jobs.

Wastewater Treatment Plant, City of Sioux Falls, Sioux Falls, South Dakota 1982

Carpenter Form Builder. Robert Carr Company. Functioned as layout man and form builder for a wastewater treatment plant.

Various Construction Projects, Sioux Falls, South Dakota

Carpenter Form Bullder. Dave Gustafson and Company, Inc. Functioned as form builder and small equipment operator.

Black & Vestch



THOMAS O. MAGDANZ, JR.

Wastewater Treatment Plant, City of Brookings, Brookings, South Dakota 1978-1981

Carpenter Form Builder. Orville E. Madson & Sons, Inc. Supervised final change orders and installation of equipment for the Brookings, South Dakota, wastewater treatment plant.

Apartment Complex, Bismarck, North Dakota

Carpenter. ASP Construction Company. Supervised laying out of two 50 unit apartments.

Oahe Irrigation Pumping Station, Bureau of Reclamation, Pierre, South Dakota

1975-1977

Carpenter Foreman Form Builder. Gordon H. Ball, Inc. Supervised the work of 10 people.

Residential Construction, Pierre, South Dakota 1974-1975

Carpenter. Missouri Valley Homes. Performed in-home construction.

Reference List

Mr. Phil Hayes
Project Manager - Weston Unit 4

Wisconsin Public Resources Corp. 700 N. Adams St. Green Bay Wi. 54307 920-433-1824

Mr. Ken Roth
Division Manager

Omaha Public Power District 444 S. 16th St. Mall 9E/EP1 Omaha, NE 68102-2247 (402) 636-3320

Mr. Tim Driver Generation Technical Project Manager

Tri-State Generation and Transmission Association 1100 W. 116th Ave Westminster, CO 80234 (303) 254-3159



Wisconsia Public Service Corporation (a subsidiary of WPS Resources Corporation) 800 North Adams Street PO. Box 18002 Green Bay, WI 54307-8002

June 3, 2003

To Whom It May Concern:

Black & Veatch is currently performing engineering services for Wisconsin Public Service Corporation for the first phase of WPSC's Weston Unit 4 project. Their current work involves the permitting support engineering and conceptual engineering for this unit.

The conceptual engineering work includes the development of the site layout, performing studies on various systems to determine the optimal configuration, cost estimates and cost projections, preparing system definitions to document the plant configuration, performing performance calculations, developing a plant schedule, and other general conceptual/definition engineering.

We have found Black & Veatch to be a professional and trustworthy organization. Their personnel are proficient and have always conducted themselves in a professional manner. We have found them very responsive and reliable, and their knowledge of overall power plant work is extensive. We have found their knowledge of the integration of the engineering/procurement/construction aspects, as well as their overall experience in both combustion turbine and coal-fired projects to be a particular plus for our project. We have been pleased with their past work, and look forward to working with them on the execution phase of the project.

If I can be of any assistance to you in answering any questions regarding the quality of the work that Black & Veatch has performed for us, or regarding our level of satisfaction with Black & Veatch, please feel free to contact me at (920) 433-1824.

Sincerely,

Phil M. Haves

Manager - Major Projects Group

Black & Veatch Corporation 10751 Deerwood Park Boulevard Suits 130 Jacksonville, FL 32256



Subject:

Black & Veatch

and JEA's Northside Units 1 & 2 Repowering Project

To Whom It May Concern,

Please accept this letter of introduction and reference for Black & Veatch Corporation.

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JEA is the largest public power company in Florida and the eighth largest public power company in the US. JEA currently serves nearly 350,000 customers and is experiencing a load growth rate of more than 3% per year.

. a C W E N

in early 1999, JEA began a multi year project to repower two outdeted oil/gas-fired steam electric generating units with two new state-of-the-art 300 MW Circulating Fluidized Bed Bollera. Black & Veatch provided significant support for this effort and shared in our success when Unit 2 began generating electricity on solid fuel in January 2002 and Unit 1 began generating in June 2002.

During the course of the project, Black & Vestch provided the following scope of services to JEA:

- Prepared the Furnish and Erect specification for the two CFB boilers including the Air Quality Control System.
- Reviewed the Boller and Air Quality Control System submittals along with JEA to verify conformance to specifications.
- Provided for electronic review and storage of all project submittals.
- Provided the detailed engineering for the Balance of Plant Including the Meterial Handling System.

We consider this project to be a success, and we are pleased with the support that Black & Vestch provided for us from spec preparation to submittal review and from detailed design to document review and storage. They were an effective liaison between our desires as the client and the abilities of our subcontractors.

If you should have any questions or wish to discuss this matter with me personally, please do not hesitate to contact me at (904) 714-4831 or by e-mail at dunolv@les.com.

Joey v. Duncan

truly yours

Manager, Project Management

JVD/keh



To Whom It May Concern:

The Municipal Energy Agency of Nebraska (MEAN) has employed Black & Vestch for services on coal-fired power projects ranging from support of project development, conceptual design, permitting support, to full scale engineering and detailed design, procurement services and construction management either directly or indirectly through our participation in a group of utilities. Recent project work has included a feasibility study, and a Phase I engineering services assignment, which has included conceptual design, project development support, studies, cost estimates, and permitting support relative to a planned 220 MW expansion at Whelan Energy Center in Hastings, Nebraska.

I have found Black & Vestch to be a professional organization, responsive, with the highest standards of operation. Black & Vestch is a very reliable organization. The work performed by Black & Vestch is high quality and staff we have worked with have displayed a long-term working knowledge of issues that are key to designing and constructing power plants.

If I can provide any additional information or clarification of MRAN's satisfaction with Black & Vestch performance, please feel free to contact me at 402-474-4759.

Sincerely yours,

Kevin M. Gaden

Manager of Electric Assets

Municipal Energy Agency of Nebraska

NAPP ENERGY P.O. Ecz Szisł Lingolm, ng 86809-8124

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PHONE, 402.474.4768 FAR: 402.474.0478 WWW.NM.PFRHEROY.ORG



1228 North Denver Avs. • RO. Box 289 • Heetings, Nebreske 88902-0289 Telephone (402) 483-1371 • FAX (402) 483-1705 = www.hestingsutifities.com

September 19, 2002

To Whom It May Concern:

Hastings Utilities has employed Black & Ventch for services on coal fired power projects ranging from support of project development, conceptual design, permitting support, to full scale engineering and detailed design, procurement services and construction management either directly or through our participation in a group of utilities. Recent project work has included a feasibility study, and a Phase I engineering services assignment, which has included conceptual design, project development support, studies, cost estimates, and permitting support relative to a planned 220 Mw expansion at our Whelan Energy Center.

Over my twenty-five years at Hastings Utilities, I have found Black & Vestch to be a professional organization, responsive, and with the highest standards. Black & Vestch is a very reliable organization, and the work performed by Black & Vestch is of the highest quality.

If I can provide any additional information about the performance of Black & Vestch, please feel free to contact me.

Sincerely,

Marvin H. Schultes Manager of Utilities

elle the

Phild Paneurose See Jame Generaling Stellan Metholog 80ES, P.O. Box 227 Webstice, IAM 87421-0227 (805) 198-7814 Env. (805) 486, 4048



Operated by



A personal commitment to New Manice

October 17, 2002

To Whom it May Concern:

Black & Vestch has performed engineering services for the Public Service Company of New Mexico on a number of projects for cost-fired units. These services included studies for individual systems to project development work and detailed design. The one I am particularly addressing in this letter is the fatel flaw and follow up study in relation to constructing a new cost fired generating unit. This development work included conceptual design, performance estimates, cost estimates, and interfacing with various equipment suppliers on our behalf.

We have found Black & Vestch to be a professional and trustworthy organization. We have found them to be reliable and their innovindes of overall power plant work is extensive. We have been pleased with their past work and plan to consider them for future work.

If I can be of further assistance in answering any questions regarding the quality of the work that Black & Vestch has performed for us or regarding our level of satisfaction with Black & Vestch, please feel free to contact me at (505) 598-7259.

Observator

Manager, Technical Resource

Mirant Pagblisc Corporation

an affiliate of Mirant Philippines

CTC Building, 2232 Rossa Blvd., Passy City, Philippines
7 632 552-8000 F 832 832-2664 U www.mirant.com



October 16, 2003

Subject: Construction of the Pagbilao Plant

To whom it may concern:

Upon your request, we hereby acknowledge that the 2x350 MW coal-fired thermal power plant located in Pagbilao, Quezon, Philippines (the "Pagbilao Plant"), was designed and constructed by a consortium to which Black & Veatch was a member.

The Pagbilao Plant was placed in commercial operation in 1996. Prior to commercial operation, we have undertaken an assessment of the services rendered by the EPC consortium, including Black & Veatch, and are satisfied with the quality of the services of the contractors. To date, the Pagbilao Plant has not experienced any major operational or technical problem.

Sincerely yours,

Joseph Lee Sulivan Executive Vice-President

Operations

March 26, 2003

To Whom It May Concern:

The AES Themes facility was designed and constructed by an EPC contractor that was a joint vanture led by Black & Vestch. Black & Vestch provided the design, procurement, and construction management for the plant.

This facility began commercial operation in 1990 and has performed well. Over the life of the unit, we have called upon Black & Vesteh to provide support services including design of selected modifications and assistance with the acceptance testing of selected maintenance modifications.

If you have any further questions, please contact me via email at Weikko. Wirts@ses.com.

/ \ \

Weikko S. Wirta Area Superintendent



Cedar Bay Generating Plant

Owner: Cedar Bay Generating Plant, LP

9840 Englyort Road Jackson-Bo, FL 3221

Mailing Address P.O. Box 26324 Jacksonnilla, FL 32228

904,751,4000 Fair: 904,751,7320

October 16, 2003

To Whom It May Concern:

National Energy & Gas Transmission's Codar Bay Generating Plant, a 3x1 258MW, coal-fired, CFB cogeneration plant, was designed and constructed by an EPC contractor that was a joint venture of which Black & Vestch was a member. Black & Vestch provided design, procurement, construction management, and startup services.

This facility was placed in commercial operation in January 1994 and has performed well. Black & Vestch's performance on this project satisfactorily met or exceeded the plant's requirements for schedule and budget. Black & Vestch is a very reliable organization, and the work performed by Black & Vestch is of the highest quality.

If I can be of further assistance in answering any questions regarding the quality of the work that Black & Vestch has performed for us or regarding our level of satisfaction with Black & Vestch, please feel free to contact me.

Sincerely,

Cc:

Steven J. Bushin Engineering Manager

Marty Kroft File 4.33



To whom it may concern

J14224

3 February 2004

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This letter is to confirm that Black & Veatch was awarded our Paiton project as a partner with Siemens (consortium leader) and Alstom, 2x610 MW Pulverized Coal project in the year 1995 on Turn-key, EPC basis. The project iwas completed in the year 2003. The total value of the contract was US\$1.2 billion.

PT. Jawa Power

Holger Ilbruck

Vice President Technical