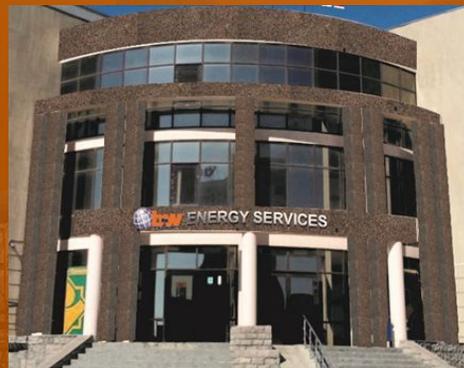




KAZAKHSTAN

101 Kulmanova
Street
Atyrau 060011
Republic of
Kazakhstan



ISO 9001:2015
ISO 14001 2015
ISO45001 2018
(Achieving)

Safety

At B&W, Safety Will Always Be Our Primary Focus

- Safety consists of a lot of systems and procedures but to make them meaningful you need to grow a strong safety culture and commitment to the safety program
- BW Kazakhstan is achieving
 - ISO 45001:2018 - Management Systems of Occupational Health and Safety (OH&S)
 - ISO 14001:2015 – Environmental Management Systems (EMS)

BW believes that a strong safety culture and commitment is critical but the right ingredients need to be in place to enable it to work

BW have Better People

- We need the right people trained with the proper skillsets and experience – round peg round hole
- We make sure a proper safe working environment is provided to the workforce – no work until this is achieved

BW have Better equipment

- BW ensure our people have the correct high quality equipment to execute their work – no low cost compromise
- The best equipment is potentially dangerous if not maintained – Inspect, Maintain, Test and Store

BW have Better Engineering

- All systems, training, people and equipment are at risk if the engineering provided is not safe
- Our engineers understand the criticality of integrated safety reviews during the design phase
- When BW execute design, integrated safety design reviews are part of the approval process
- Where design provided by others a constructability review of the design takes place prior to work starting

Global Presence

- b&w Energy Services , the parent company of BW Kazakhstan LLP operates globally and has a proven track record of working in diverse climates and is also experience working with different cultures
 - The culture is to upskill local personnel using our core team specialists. b&w still employs Kazakh personnel who were hired and trained on the SGP / SGI project. Over the years these personnel have been around the globe with the company and the intent would to bring them back to Kazakhstan for 3GP/3GI as BW core team member
- Extensive experience in multiple Energy Sectors. This multi industry experience and lessons learned ensures BW Energy Services provides the latest proven equipment systems, procedures and lessons learned to this project.
- Oil & Gas
 - GTL
 - LNG
 - Mining
 - Power
 - Pulp and Paper
 - Petrochemical
 - Refining
 - Solar
 - Upgrading



History of BW in Kazakhstan

SGP/SGI

- b&w first came to Kazakhstan in 2004 to work on the SGP/SGI project and were based in the Rotational Village
- A core team of pre commissioning and commissioning specialists were mobilized from the US to Tengiz where we hired and trained Kazakh personnel as part of our team
- b&w returned to Kazakhstan in 2008 to work on the Kashagan Process facility just outside Atyrau
- While b&w did not maintain a full time office in Kazakhstan ties with the country were not broken. Kazakh employees trained by b&w on SGP/SGI were transferred to different projects around the world and still work with us
- These personnel will then be part of BW Kazakhstan's long term business commitment to Kazakhstan.
- A number of the b&w U.S. SGP/SGI core team are still with the company so an experiences team who are familiar with working in Tengiz is available.

3GP/3GI

- b&w are currently working on the design portion of the cleaning pre-commissioning and commissioning scope of work requirements for 3GP
- Our brief is to define the scope of work, map out the commissioning system battery limits for testing and commissioning
- Identify design modifications to facilitate efficient testing
- Provide fabrication drawings for any test modifications required
- This scope is currently being executed in our Houston office and the final portion of the design completion will then transition to site

Fluor & Worley Parsons
Tengiz, Kazakhstan

The Future Growth Project for TengizChevroil (TCCO) is a third generation mega-project expansion of the Tengiz oil field in western Kazakhstan. B&W Energy Services provided an engineering study to map out the pre-commissioning cleaning activities required for the project.

B&W's engineering study included defining the scope, mapping out steam blows, and identifying design modifications on the systems and plant resources. When completed, the Future Growth Project will increase the capacity of the Caspian Sea Pipeline in stages, ultimately reaching 1.4 million barrels of oil per day. Project completion is scheduled for 2021 when first oil is expected to be achieved. B&W Energy Services is proud to work with the Fluor & Worley Parsons Joint Venture, who has come to rely on B&W for their expertise and track record for success.

FLUOR.
PROJECT SERVICES

WorleyParsons
PROJECT SERVICES

b&w
ENERGY SERVICES

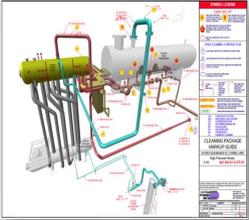
281.534.9300
bwenergyservices.com

Cleaning / Commissioning Services



Services – Project Life Cycle

Engineering and Design:



- The mechanical and electrical team has a primary focus to produce engineered, quality designs. We have the capability of delivering bridging supplementary multi-disciplined design and installation services

Procurement and Expediting:

- BW's specialized procurement team develop and deliver supply chain strategies for your project that get the best results from the market.
- We support your project from inception to completion, providing strategic insight, assurance and international best practice to guide project delivery and mitigate risks.



Pre-commissioning and commissioning

- Correct commissioning is vital to the satisfactory operation of any plant or facility and it is essential that sufficient time and resources be allocated to different stages of the commissioning and startup.
- BW offer our clients valuable industrial facility commissioning, taking you from planning through to operation. in all stages necessary to transfer your plant from construction to operations, focusing on instrumentation, electrical, mechanical/HVAC, safety systems, fire & gas, telecommunication and piping.



QA/QC & Completions services:

- BW develop quality plans, procedures and execution strategies for quality for your project. We verify the project has been properly documented and 100% signed off moving from engineering through construction, mechanical completion and on to a verified multi-disciplined Systems Completion status



Services – Project Life Cycle

System punch list, walk down and close out:



- Construction companies can be more focused on volume installation rather than systems completion up to 90% complete but the last 10% delays access to pre-commissioning and commissioning systems.
- BW can assist with construction completion and punch list close out to enable system testing to commence. We basically ensure the constraints to pre-commissioning and commissioning are removed in a sequential manner

Startup and post commissioning operational support



- Transfer of “as-commissioned” documents, knowledge, procedures and experiences to operation and maintenance teams is a critical step to achieving a smooth transition.
- The aim during the initial period of operation is to ease operation, remove bottlenecks, reduce costs and improve quality. BW Kazakhstan can play an important role in making sure this is what is achieved.

Turnarounds and maintenance



- Maintenance and facilities management are key components of our integrated project management package.
- b&w have over twenty years' experience in the sector and has consistently ensured that client facilities continue to operate and perform to the highest industry standards through maintenance of key mechanical and electrical equipment and systems on-site

Local content



- BW understand its most valuable asset are its people and as such offers employees the opportunity to develop and grow with the company. As managers this is rewarding as we can witness the company evolving through the education and training being provided across all disciplines at all employee levels
- Senior management in the company have been recognized by KAZENERGY for their contribution to developing local content for oil, gas and energy in the ROK and awarded a medal from the ROK association of oil and Gas energy sectors
- This commitment to local content is the cornerstone of the BW Kazakhstan sustainable business model
- BW Kazakhstan has a “local for local” policy executing it through training and succession planning objectives for Kazakh personnel
- BW has followed through on local content commitment since SGP/SGI. Kazakh nationals trained by BW specialists during that project are still working with us on various international projects
- BW commitment is to local employees, consortium partners and also right across the local supply chain for equipment and material making effort to purchase goods and services from local suppliers and manufacturers first where possible

License

- BW entered Kazakhstan during the SGP / SGI projects in 2004 and provided pre-commissioning , commissioning , Procurement and engineering services
- BW has re-entered the Kazakh market with a view to building a sustainable local business .We have opened an office in Atyrau and are in the process of arranging facilities in Tengiz
- We hold a category one Construction license and a Category 1 Engineering License

 19024271

ЛИЦЕНЗИЯ

20.12.2019 года 19024271

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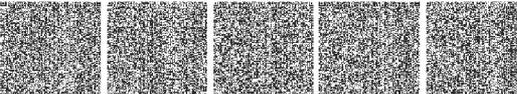
Construction License Category 1

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на занятие	Проектная деятельность <small>(наименование лицензируемого вида деятельности в соответствии с Законом Республики Казахстан «О разрешениях и удостоверениях»)</small>
Особые условия	I категория <small>(в соответствии со статьей 26 Закона Республики Казахстан «О разрешениях и удостоверениях»)</small>
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Руководитель (уполномоченное лицо)	Жавамет Аскар Жаваметулы <small>(фамилия, имя, отчество (в случае наличия))</small>
Дата первичной выдачи	09.09.2019
Срок действия лицензии	
Место выдачи	г.Атырау



Design License Category 1

Client Survey Feedback



- A substantial percentage of our work globally is based on repeat business. Our clients expect top quality service thought all stages of the project life cycle which BW offer.
- Client satisfaction is received through our survey questionnaire at the end of every project and the response reviewed by senior management to search out areas where we can constantly improve.
- This information is also shared with the project team allowing them to give feedback on their experiences and then we pass on the “lessons learned” on all future projects through the business.



"ALL" External Survey Results

Overall Form Submission Results



Overall
Avg Ratings:
89%



Sales
Avg Ratings:
88%



Operations
Avg Ratings:
91%



Engineering
Avg Ratings:
88%



Warehouse
Avg Ratings:
85%

ALL

2017

2018

2019

Clients



WorleyParsons
resources & energy

EXxonMobil
Chemical



SASOL



SKANSKA



Reliance
Industries Limited



INITEC
Energía



JACOBS



Chevron
Phillips
Chemical Company LP

FDH JV
FLUOR | DAEWOO E&C | HYUNDAI
HEAVY INDUSTRIES

TECNICAS REUNIDAS



NEXTERA
ENERGY
RESOURCES



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AEP AMERICAN
ELECTRIC
POWER



Sample signature projects globally

KNPC Clean Fuels Mina Abdullah, Kuwait

B&W Energy Services is proud to announce their latest project award in the emerging Kuwait market at the Mina Abdullah Refinery, where B&W is providing steam blowing, Aquealizing and oil flushing services as part of the Kuwait National Petroleum Company's (KNPC) Clean Fuels Project (CFP).



This project holds significant strategic importance as the country anticipates numerous projects over the next few years to upgrade outdated refineries in the region. The KNPC Clean Fuels Project is an effort to upgrade and modernize two refineries, and build a third from the ground up. KNPC is making a significant investment into their existing facilities and expanding capacity with new projects in the future.

The joint venture's choice to bring the B&W team in on this project highlights the importance of quality, safety and experience required on a project of this magnitude, which B&W will provide again and again for our clients across the globe.



Chevron Phillips Baytown, Texas

In one of the most critical projects in the Gulf Coast region, B&W Energy Services has been selected to design and execute a complex chemical cleaning procedure on eight ethane cracker furnaces at the Chevron Phillips Chemical Cedar Bayou Ethylene Expansion.



The CP Chem Cedar Bayou Ethylene Expansion project is a \$2 billion investment by CP Chem in the Gulf Coast. The project will use abundant shale supplies to meet the ever-increasing global demand for plastic products.

B&W was the clear choice to design and execute the complex chemical cleaning, air blow and oil flushing services needed at Cedar Bayou. Rapid mobilization for the chemical cleaning was needed to maintain the project schedule. The expansion of Cedar Bayou by CP Chem is the first phase of the \$2.2B Petrochemical Project.



Saudi Arabia Signature Projects

B&W Energy Services continues to develop relationships as we grow our Saudi Arabian Location in Abqaiq KSA. Our presence in this region is due to the experience and professionally maintained equipment we bring to each project. Our attention to detail and our safety record are paramount to our success. By providing cost-effective piping we can demonstrate our commitment to quality and safety.



B&W's commitment to working together to help drive a successful project to completion is one of the main reasons we continue to grow. Our clients continue to trust us and want to ensure their projects' success. As the leading provider of pre-engineering and pre-commissioning cleaning services, we have to prove our commitment every time and our strategic locations are designed for quick response.



Athabasca Oil Sands Fort Saskatchewan, Alberta

B&W Energy Services was contracted by Shell to provide our engineered steam blow services for the Scotford Upgrader Project near Fort Saskatchewan in Alberta, Canada. The Athabasca Oil Sands Project's Scotford Upgrader uses hydrogen-addition technology to upgrade bitumen from the Athabasca Sands into synthetic crude oil.



Due to our long and excellent working relationship with Shell around the world, B&W Energy Services was asked to complete this project with the same precision as we have previously. Our relationship with Shell has continued to grow and we look forward to future opportunities with their organization.



CB&I Martinsville, Indiana

B&W Energy Services was chosen by CB&I to perform engineered Steam Blow and Aquealizing Services at the Eagle Valley CO2 Project in Martinsville, Indiana. The facility, owned by Indiana Power & Light, replaced the Eagle Valley Station in 2006 with plans to construct a 650 MW combined Cycle gas facility at the same site.



B&W's relationship with CB&I provides an exciting opportunity to expand our combined cycle power project portfolio. B&W continues to provide industry-leading services, through our ability to move quickly on projects with both detail and precision.



Técnicas Reunidas Al-Zour, Kuwait



Before history of www.bwenergyservices.com

B&W Energy Services is performing Aquealizing services for Spanish EPC Técnicas Reunidas on KNPC's Al-Zour refinery after a successful partnership with Técnicas Reunidas at Al-Hamad, just 30 minutes away. Técnicas Reunidas is engineering and constructing the processing units at Kuwait National Petroleum's new Al-Zour Refinery. To be built with the capacity to produce 65,000 barrels per day, it will become the largest refinery in the Middle East.

Técnicas Reunidas' 45-month contract includes three crude distillation units, three atmospheric residue desulfurization units, three diesel hydrotreating units, two naphtha hydro-treating units, two kerosene hydrotreating units, a saturated gas unit and a heavy oil cooling unit.

The Al-Zour refinery represents a capital investment of US \$1.3 billion and is the first refinery installation of Kuwait's Clean Fuels Project. The B&W Energy Services team is working with several other organizations to complete the pre-commissioning for the refinery, which is scheduled to begin work in the summer of 2009.



DOMINION ENERGY Waterford, Connecticut



PHOTOGRAPH BY ROGER REDNEVER, CORNIG

B&W Energy Services has been on call to provide pre-commissioning and cleaning services to Dominion Energy at their Millstone Nuclear Power Station in Waterford, CT as part of their 6M outage.

Millstone Nuclear Facility produces enough electricity to power 2 million homes. The operation of the Millstone Nuclear Power Station produces over 1.1 billion dollars in annual economic benefits to the state, supports more than 1,300 jobs and generates the equivalent of over half the electricity consumed in Connecticut.

B&W worked for this facility two years ago on an emergency basis to remove hydroblasts from a cooling water system that is critical to the operation of the plant. This year, Dominion had a planned outage on a separate unit cooling water system and B&W stood ready to offer our expertise on behalf of the facility.

This effort is part of B&W's tradition to add our specialty services into the planned outage areas. It has enabled us to become a preferred vendor to Dominion as well as an established vendor to the nuclear industry, which requires the highest safety and environmental standards of any industry.



