



Nuclear Capability, the Market & Opportunities

Presented By: Currie & Brown

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We are Around the Globe

Operating in 5 Key strategic global hubs.....global reach, local business.



Worldwide Centres of Excellence.



Americas
Mexico
Phoenix
Portland
Princeton

Europe & Africa
Casablanca
France
Jersey

UK
Haywards Heath
London
Manchester
Milton Keynes
Plymouth
Portsmouth
Scotland Hub

Middle East & India
Abu Dhabi
Bangalore
Chennai
New Delhi
Dubai
Mumbai
Oman
Qatar

Asia
China
Hong Kong
Taiwan
Japan

Geographical basis enables effective regional management of local offices

What is the Nuclear Market?

- Decommissioning
- Nuclear New Build – UK and International
- Fuel Reprocessing and Storage
- Operational Support
- Test Facilities
- Power Generation
- Power Distribution
- Infrastructure

Nuclear Track Record

Currie & Brown have an outstanding track record of providing services to many of the world's largest multi-nationals.

With 80% of our income being on repeat business we have a strong reputation of offering quality, professionalism and a wide mix of skills. Our experience ranges from projects such as the Areva TVO new build nuclear power station in Finland to Waste Management and de-commissioning with the British Nuclear Group.

We pride ourselves on our long standing relationships with the key players;

**UKAEA, SPIE Nucléaire, Nuvia
British Nuclear Group, AREVA**

Projects

UKAEA

Experimental Power Plant
Land Remediation
Dounreay Power Station

British Nuclear Group

Nuclear Waste Management
Nuclear de-commissioning

Nuvia

Nuclear decommissioning
Project Sellafield

AREVA

TVO New Build, Finland

SPIE Nucléaire

Flamanville, France

Our Services

Project Controls & Support Services

Core Competencies

- Estimating
- Budgeting and detailed cost planning
- Contract preparation & negotiation
- Monitoring and Management of costs
- Strategic & detailed planning
- Detailed cost auditing
- Certification of progress payments
- Tracking of safety statistics and reporting
- Project analysis
- Engineering & design evaluation

Consulting

Core Competencies

- Partnering and alliance facilitation
- Earned value analysis
- Facilities Management
- Procurement and sourcing of maintenance
- Technical due diligence
- Risk management
- Value Management
- Project implementation design, Procurement, Installation, Commissioning

Contract Management

Core Competencies

- Advising on Procurement Strategies
- Advising on contract models and forms of payment
- Advising on contract conditions and procedures
- Preparing tender and contract documentation
- Tender evaluation
- KPI Preparation
- Evaluating variations, claims and final accounts
- Decommissioning support
- Benchmarking

Our Clients

ALSTOM

SPIE

ureenco

A
AREVA

NUVIA

 **UKAEA**


edf
ENERGY


BNS Nuclear Services

 **British Nuclear Group**
Intelligent nuclear clean-up

Our Experience

Teollisuuden Voima Oy (TVO) - AREVA

Value: Over 3 000 M€

2003 – to date



Currie & Brown France was appointed as contract manager by AREVA to provide contract management services throughout the duration of the project at offices in Paris and on site in Finland. Currie & Brown France provided contractual expertise in implementation, execution and administration of the contract and lead negotiations and resolutions of contract issues and disputes.

This new nuclear plant is a European Pressurized Reactor (EPR) that represents the most advanced light water reactor technology available on the market. Its concept is revolutionary in comparison with existing advanced reactors. It can provide a net electric output of 1600 MWe (more than conventional advanced reactors who produce 1400 MWe). It is being built to achieve the Finish Government energy policy's main objective to secure energy procurement at competitive cost without compromising Kyoto's protocol. The new power plant unit is expected to provide permanent employment to 150 – 200 people.

Our Experience

Sellafield – BNS Babcock

Value: £20 million

2005 – 2009



Currie & Brown are performing cost and commercial management duties for INS Innovation Ltd on the procurement of mechanical handling equipment and extensive control systems for the SPRS project at Sellafield, which is for the storage and retrieval of waste canisters to and from a dedicated storage building.

The project also includes 'Integrated Works Testing' which involves the assembling of certain elements of the equipment, including the control system, at the INS works in Irlam to replicate operation in the building at Sellafield. In this way any teething troubles can be identified and corrected before the system is installed in its final location, and BNG can investigate the effectiveness of the Mechanical Protection Devices and the Engineering Protection System.

The work is carried out off-site and is valued at between 10 and 20 million pounds and extends over approximately 2 years.

Our Experience

Flamanville - SPIE Nuclear & CEGELEC

Value: 3000 M€ / IEG > 40 M€

2007 – 2012



Currie & Brown has been appointed as contract manager by SPIE Nuclear & CEGELEC to provide contract management services throughout the duration of the project at offices in Paris and on site in Normandy.

This first EPR to be built in France has involved a complete restructure of the procurements related to electrical supply due to the restricted area available in Normandy as well as the specific French regulations. In this context, Currie & Brown provides contractual expertise in execution and administration of the contract, leads negotiations and resolutions of contract issues and disputes.

This new nuclear plant unit includes the European Pressurized Water Reactor (EPR) that represents the most advanced light water reactor technology available on the market. Its concept is revolutionary in comparison with existing advanced reactors. It can provide a net electric output of 1600 MWe (more than conventional advanced reactors who produce 1400 MWe). FA3 is the first EPR built in France ; and the second to be installed near Rouen. EDF intends to build 4 other EPRs in the UK, as well as in Italy before 2020.

Our Experience

Dounreay - UKAEA

Value: £25 million

2005 – 2008



Currie & Brown have been involved in the supply of Project Controls to assist the United Kingdom Atomic Energy Authority (UKAEA) with the decommissioning of the Nuclear Test Facility at Dounreay.

After 55 years of development the site is underway with a decommissioning programme which is estimated to last in the region of 35 years.

We were involved continuously on the site since 1990.

The contract involved the provision of Cost Engineers, Planning Engineers and Estimators, together with consultancy services consisting of Audit functions. We were also responsible for training UKAEA personnel in Project Controls and have assisted with providing technical solutions to mandatory processes and procedures laid down by the NDA (Nuclear Decommissioning Authority).

Our Experience

Nuvia & Halcrow, SDeP Project – Sellafield

Value: £15 million

2008 – 2009



As part of a framework arrangement Currie & Brown provided commercial management services to Halcrow and Nuvia (formally NUKEM) on the SDeP nuclear decommissioning project (Silo Direct encapsulation Project).

The sub-contract had been let on the NEC form of contract and commercial support was required in administration of the contract change control mechanism.

Our Experience

ANSTO, Australian Nuclear Science & Technology Organisation

Value: AU\$500 million
2000



ANSTO (Australian Nuclear Science & Technology Organisation) has a research reactor and associated facilities at Lucas Heights in NSW.

Currie & Brown was appointed by ANSTO to undertake an asset re-evaluation exercise for their assets at Lucas Heights Reactor. Assets consist of 80 building comprising offices, laboratories and scientific and nuclear equipment. The exercise involved updating the existing asset register, establishing the replacement cost, assessing the condition and then establishing a depreciated value for assets. The replacement value of the assets was approximately \$500m.

Where are the Regional Opportunities?

- Sellafield:
 - i. Decommissioning
 - ii. Britain's Energy Coast
 - iii. Infrastructure (port, rail, roads)
 - iv. Commercial (offices, student accommodation)
- Nuclear New Build:
 - i. Wylfa
 - ii. Heysham
 - iii. Sellafield
- Nuclear Fuel Processing & Distribution (Capenhurst)
- Transmission & Distribution (National Grid)
- Conventional Power Island (Alstom, Siemens)

Questions?

“Dedicated to understanding our clients business needs, our goal is to be the consultant of choice”



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