OUR SERVICES TO THE NUCLEAR INDUSTRY
OUR BACKGROUND IN THE NUCLEAR INDUSTRY

For the last 25 years we have been providing strategic advisory services to the nuclear industry, ranging from multidisciplinary design through to operational support and decommissioning consultancy services.

A respected name within the UK Nuclear market, we are the lead partner of choice for a number of frameworks including several direct contracts. We have completed extensive work at Sellafield and for a number of other nuclear clients across the Nuclear Decommissioning Authority estate (NDA). This includes project management, geospatial surveying, asset care management and bespoke civil and structural engineering solutions.

We regularly add value by combining our reliable, established services with our detailed knowledge of the nuclear industry and strong working relationships with an established nuclear supply chain.

Whether you are looking at a new build, modification decommissioning project or maintaining an asset in use we can support you at each stage of project lifecycle from initial scoping and business planning through feasibility and optioneering studies to project implementation and subsequent asset care. We have expert teams located across the UK enabling us to provide an efficient, professional service to the majority of UK civil nuclear sites.
OUR SERVICES TO THE NUCLEAR INDUSTRY

NUCLEAR NEW BUILD
We are developing key supply chain alliances with developers in the Nuclear New Build programme and have also established communication links with key technology providers.

We are providing specialist services to support a number of proposed new build locations including programme management, planning, transport planning, transport management and environmental impact assessment on behalf of developers and local authorities.

We are also in a prominent position with regard to the associated infrastructure to support the Nuclear New Build programme, not only engaging in the initial stages but also in reconciling this with the long term infrastructure requirements in support of decommissioning and operations at adjacent or nearby existing sites.

NUCLEAR SAFETY
Our extensive knowledge of nuclear procedures and standards guides the development of safe methods of work for assessment, construction and operation activities. Throughout our range of commissions, we have been involved with the assessment of safety in relation to the implications of radiological discharges.

We are very proud to have continuously supported Sellafield Ltd to meet the requirements of SLC’s 16 and 28 since 2004 through management of the site map and through identification and completion of EMIT tasks across the whole site.

NUCLEAR PROCEDURES & POLICIES
We routinely manage procedures and policies that meet and often exceed the requirements for working in the nuclear environment. This can include:
- monitored or classified workers
- dosimetry, dose control and RPS capability
- operating to nuclear site standards including nuclear site license requirements, design standards and suitably qualified and experienced person (SQEP) profiles

SECURITY
We have a number of clients across various sectors, including nuclear, whose operations are highly regulated. These clients trust us to manage their project information security and confidentially. Over half the employees in our nuclear centre of expertise are security cleared to the enhanced levels of Security Cleared (SC) and Developed Vetting (DV).

ASSET MANAGEMENT
We currently have a team of experts managing the Sellafield site plan. Our dedicated team of qualified building surveyors and engineers carry out statutory and safety related inspections and provide asset care and maintenance guidance to underpin the process of managing ageing assets. Our teams are all fully qualified to access areas requiring specialist training.

We also provide asset pathology and forensic engineering services to help ensure that civil assets continue function as required by Sellafield. We have inspected over 80% of the civil assets systems at Sellafield including buildings, pipebridges, stacks, roads, bridges, ducts and trenches.

In addition to these areas we provide a range of specialist services including:
- PAS 55 consultancy
- condition based functionality assessment of structures, systems and components
- degradation mechanism assessment
- failure mode analysis
- creation of a data capture and database software
- secondary steelwork component audit (e.g. stairs, walkways, cat ladders, platforms and handrails)
- asbestos management
- fire risk analysis
- disability discriminations audits
- dilapidations
- expert witness

TRANSPORT PLANNING
Our transport planning service can be exemplified by our work at Hinkley Point C. This will incorporate two pressurised reactors capable of generating electricity for approximately five million homes. We have been engaged to develop a comprehensive transport strategy to ferry workers and materials to site and minimise disruption to the local communities.

This scheme is at the forefront of the Nuclear New Build programme and our services are for the Infrastructure Planning elements relating to highways and transportation.
GEOSPATIAL, LASER SCANNING, TOPOGRAPHICAL AND PRECISION SURVEYING

We have a dedicated geospatial team who are experienced and qualified in a wide range of data capture techniques including industrial metrology, photogrammetry, GPS and laser scanning, as well as the more traditional surveying methods of theodolite and level. With our advanced laser scanning capability we can help lower the risk when maintaining and modifying equipment in highly radioactive or difficult to access areas. Whether you are designing a modification to complex plant piping and structures, surveying a site or documenting building features, we can provide reliable measurements which will reduce or eliminate rework costs and in-field checking.

Geographical Information Systems (GIS)

Our qualified, GIS specialists offer strategic advice and feasibility studies and can integrate data and supporting systems. Our team is able to understand, manipulate and export existing datasets in a GIS-friendly format developing bespoke systems to meet client needs. We can provide bespoke internet and desktop solutions, together with end-to-end services for the complete data life cycle including capturing data from satellite imagery and aerial photography, digitising information from existing maps and plans, and collection of data in the field. We manage, process and analyse spatial data, and can use it to create 2D and 3D visualisations.

Engineering

We provide a totally comprehensive and independent consultancy service to cater for the design, engineering assessment, procurement and management of public and private assets. Within the nuclear sector, we offer a comprehensively trained, experienced and knowledgeable workforce with bespoke skills, able to be deployed into challenging areas to undertake a variety of engineering and decommissioning projects for our wide range of nuclear clients.

Our teams lead on and provide all civil and structural design and engineering aspects and combine with multidiscipline team resources to deliver effective, cohesive solutions under the control and governance of our nuclear specific Project and Design Management team.

Seismic design and assessment

We have significant capability in the provision of engineering services to assess the capacity of operational facilities to resist extreme environmental events. This includes earthquake engineering analysis and design services on various types of buildings and structures.

Services include:
- seismic assessment and retrofit design for existing buildings and structures
- seismic analysis of foundations and structural frames
- design of buildings and civil structures in accordance with UK, European, American and Chinese codes.

PROJECT MANAGEMENT

We use agreed processes, promote consistent communication, assemble experienced teams, and above all respect client goals in order to effectively manage and deliver your projects. This includes:
- client stakeholder liaison
- programme and change management
- cost and value management
- risk management
- construction/repair/maintenance contractor selection
- contract documentation
- procurement management

ENVIRONMENTAL MANAGEMENT

We are able to assess the likely impacts of nuclear new build on host environments. We offer a comprehensive range of environmental services ensuring viable long-term planning solutions for our clients. Our solutions are practically and financially sound and aim to enhance the quality of local environments solving critical problems of environmental pollution and environmental degradation. Our services include:
- contaminated land assessment and brownfield regeneration
- ground engineering services
- environmental assessment planning and environmental impact assessments (EIA)
- landscape and land management
- solid waste management including landfill restoration
- sustainability appraisal and management
- environmental pollution control and remediation including wastewater quality, air quality and emissions control

HIERARCHY OF CONTROLS

We understand and work within the hierarchy of controls with regard to nuclear safety, design and operation including:
- site licence conditions
- nuclear operator site instructions
- continued operational safety case (COSR)
- fully developed safety case (FDSC)
- hazard operational analysis (HAZOP)
- hazard analysis (HAZAN)
- SDDR/MDDR
- work safety plans and safe systems of work
- risk assessments
- design justification reports
CONTACT US

If you would like any further information on any of our services or to see how we can help you succeed in your corporate and project ambitions please visit: www.wyg.com or feel free to contact us at the WYG Nuclear Centre of Expertise:

Lakeland Business Park
Lamplugh Road
Cockermouth CA13 0QT
T: +44 (0)1900 898 600
F: +44 (0)1900 826 324

Due to the sensitive nature of the work we’ve done we cannot publish the details, if you would like more information please email: info@wyg.com