

INSPECTEAM Hydro

HYDROPOWER QUALITY EXPERTS



QUALITY SURVEILLANCE, INSPECTION, TESTING & EXPEDITING SERVICES

*Ensure Compliance.
Add Safety. Add Value.*

Hydropower

*Reliable solutions for a
more sustainable future.*

*Benefit from our global
expertise and knowledge
of the Hydropower and
Energy industry.*

Our commitment



Quality

Our Quality Management System has been developed to fully meet the ISO 9001 requirements.

Staff Technical Competence

Our staff are selected to perform required services based upon their demonstrated qualifications and experience and are subjected to continuous additional technical training.

Personal Health and Safety

When visiting a manufacturer/supplier's plant, our staff strictly observe all Health and Safety regulations enforced by the facility or site authority and wear suitable Personal Protective Equipment (PPE) selected in accordance with the types of hazards involved.

Ethics

Our Inspectors/Expeditors are expected to comply fully with INSPECTEAM Hydro's established policy of strict observance of all laws, and maintain high standards of ethics and integrity. We also completely protect the confidentiality of all information gained or accessed from the client and the suppliers as a result of the inspection activities carried out.



Our coordination team

About us



INSPECTEAM Hydro performs the surveillance of your suppliers on your behalf by offering **inspection and expediting services across Europe**. Such as supervision, in-process and preshipment inspection and testing and expediting of mechanical and electrical equipment for the Hydropower industry.

INSPECTEAM Hydro's scope of work is to ascertain that products and materials **meet the contract requirements**, by ensuring that they conform to the design and standards specified by our clients in the purchase order and in the other contractual agreements.

We have a team of qualified engineers and quality/NDT inspectors, experts in the energy sector and especially in the hydropower and water resources industry. Our team is subject to a continuous training program and offers our clients the **highest technical competence** and professional skill.

INSPECTEAM Srl
ISO 9001:2008 Certificate



Our Mission:

- To be the client's eyes on location. We act in close contact and on behalf of your technical staff
- We are on your side. From the investment decision to sustainable and safe energy production

Our Services:

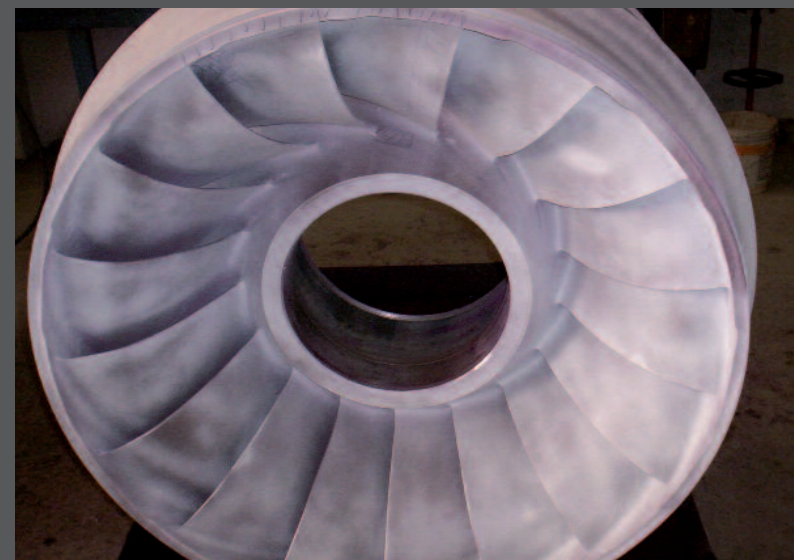
- Mechanical & Electrical Inspection
- Expediting
- Vendor Assessment Audits
- Consultancy on the Continuous Quality Surveillance Scheme
- Training

Our Customers:

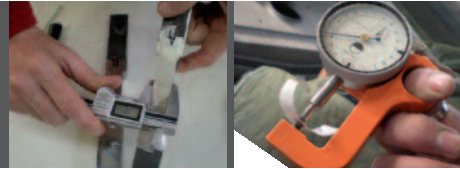
- Energy Utilities, Private Developers and Plant Owners
- Investors and Project Developers
- Hydropower Contractors and Manufacturers



Member of the The International
Safety Quality Environment
Management Association



Mechanical Inspection



INSPECTEAM Hydro – Your Second Party Mechanical Inspection Specialist

Our Quality Surveillance Inspectors can visit a client's sub-contractor facility to witness and verify inspections and tests, review conduct of special processes, verify measurements and test results and assess workmanship.

INSPECTEAM Hydro inspectors are available for one-day visits or resident assignments. Detailed reports are forwarded within 48 hours to the client.

Our uniquely qualified technical specialists are strategically located to provide cost efficient services.

We represent you on site. We are on your side.

Our area of expertise

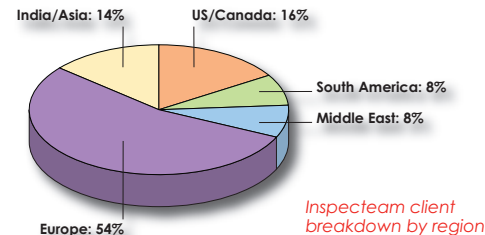
We carry out inspection of **critical turbine parts**, heavy forging, castings and critical components:

- Hydropower Turbines
- Kaplan blades and guide vanes, Pelton and Francis runners
- Turbine and generator shafts
- Turbine casings, shaft seals and distributors, White Metal Bearings, and bolting
- Steel Structures, Gates and welded construction, Rotary and Butterfly Valves, Line Pipes and Penstocks.
- Hydraulic stations, accumulators and filtering units

We are experienced with various material types, such as carbon steel, low alloy steel, austenitic, martensitic and duplex stainless steel as well as white metal and stellite. We are also familiar with relevant manufacturing processes, American and International codes and standards, CCH70-3 specification, NDT international standards.

Our scope of services

The role of INSPECTEAM Hydro is to monitor and inspect hydropower equipment on behalf of our clients **as an independent organization**. We ensure that all aspects of the manufacturing process fully meet the client's requirements, in compliance with the Technical Requisition and with applicable Quality Plans or Inspection and Test Plans.



Electrical Inspection



INSPECTEAM Hydro – Your Second Party Electrical Inspection Specialist

We carry out supervision, inspection and testing of electrical equipment such as:

- Power transformers
- Electrical motors and generators
- Switchgears
- Electronic instrumentations
- Cables
- Fire and Gas alarm systems and telecommunication systems, etc

Our inspectors are familiar with relevant manufacturing processes, and with:

- International Electrotechnical Commission (IEC) standards
- Institute of Electrical and Electronics Engineers (IEEE) standards
- European Norms (EN) and International Standards

We offer our clients integrated solutions: through local control and surveillance, we deliver global commitment!



Expediting



Expediting and Project Follow-Up

In parallel with inspection activities, if required, periodic visits are carried out at a vendor's premises in order to find (and help solve) **all potential problems** that could affect the manufacturing and cause a delay on delivery time. Such as missing approved documentation, excessive workload and inefficient technical communication between the parts involved in the project.

INSPECTEAM Hydro monitors the development of all operations of the manufacturing process and **identifies all bottlenecks** that could impact on delivery time. Our Expeditors are committed to helping our client reach the contractual delivery time while achieving the requested quality levels.

Three Effective Goals

- Make the exchange of information between client and supplier easier and faster
- Verify acknowledgement of the purchase specifications by the supplier
- Create a real time report of any possible problems and identify all possible bottlenecks, to avoid expensive delays in the deliveries



Vendor Assessment Audits



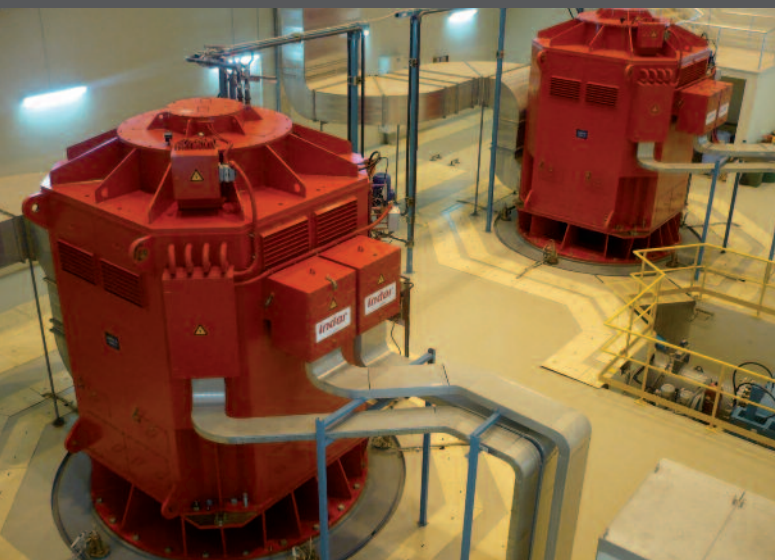
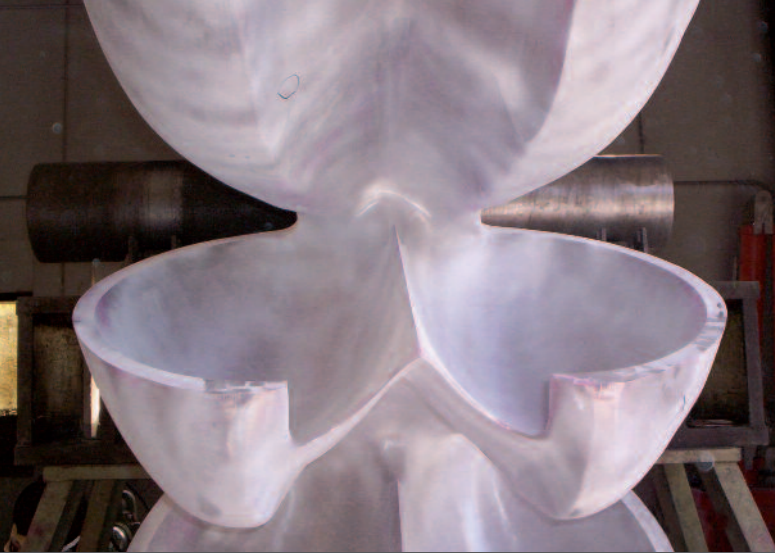
The primary concern with any new contract is the choice of vendor, as the vendors that you use **directly influence the quality** of your products. Our independent vendor assessment and technical audit services can be carried out anywhere in Europe, ensuring that your suppliers and vendors provide the quality you need.

Our vendor assessments comprise a set of questions specific to the sector. The focus is on the **vendor's organization** and quality management system and on the facilities, including machines and equipment used for production and testing, procurement, planning, in-process inspections and staff training.

Assess the ability of your vendor or supplier to deliver your orders and ensure regulatory compliance!

- Ensure thorough independent assessments of vendors' premises and facilities
- Assess the ability of your vendor or supplier to deliver your specific orders
- Ensure your suppliers and vendors meet all relevant statutory regulations and quality standards
- Use our detailed assessment report to make informed procurement decisions





Technical Consultancy

Technical consulting on Project Specification & Material Requisition

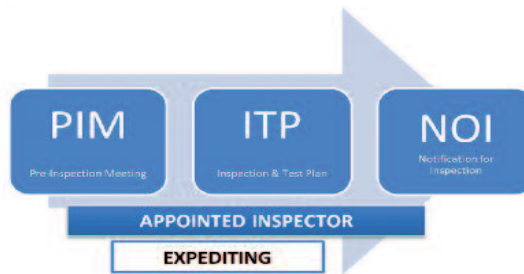
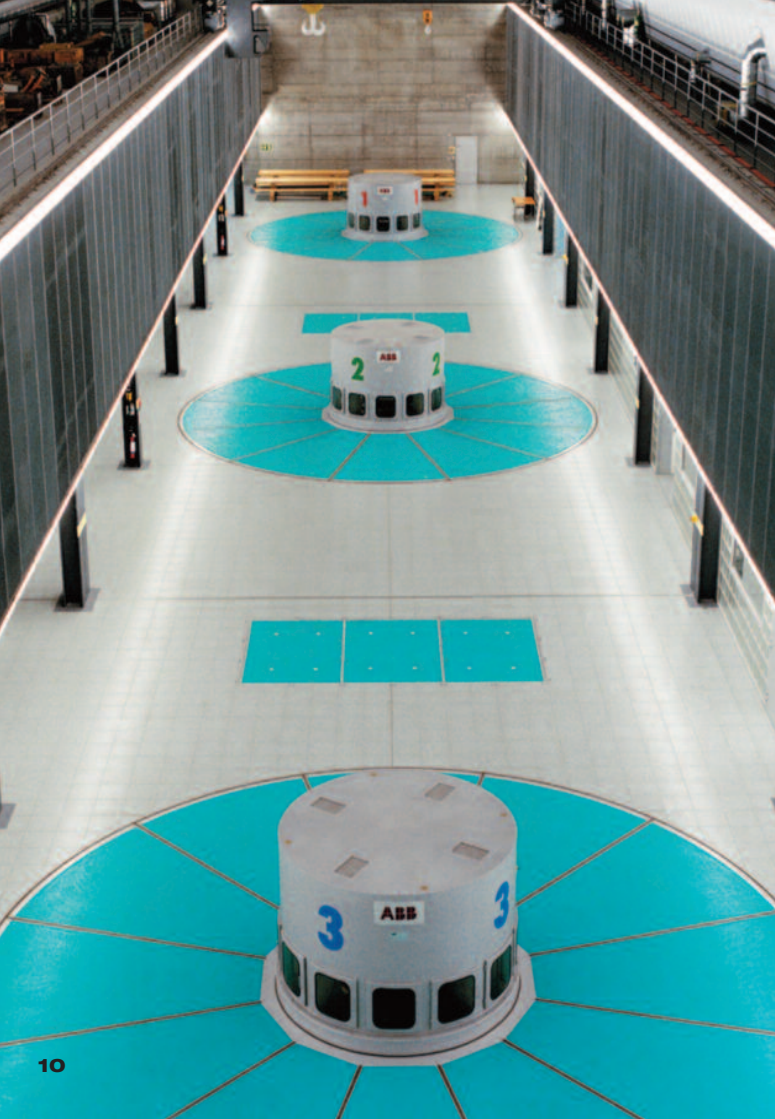
We provide technical consulting to our clients by supporting them in the preparation of the Project Specification / Material Requisition. Our Engineers can provide advice with regard to **compliance to applicable international standards** and to manufacturing feasibility.

Review and Approval of Quality Plan, ITP, Testing Procedures, Welding Book

We provide technical consulting to our clients by supporting them in the verification and **approval of supplier's documents** such as Quality Plan, Non-Destructive Examination procedures, hydrotest, dimensional check and painting procedures. We have in our team SNT-TC-1A level III NDE experts, TWI welding inspectors and IWT welding technologists and NACE level 2 painting experts.

Planning of the inspection program during Vendor's production

With our new web-based application, we can help you and your vendors to **plan the inspection** as per approved Inspection and Test Plan and to allow for a smooth exchange of information among all parties involved.



*Information
flow in the
CQSS scheme*

In the perspective of Continuous Quality Surveillance Scheme (CQSS), the totality of critical processes at your vendor's premises **must be monitored** from the beginning and for the whole duration of the production process. An error in an early stage of production **is very hard to fix afterwards** and could be potentially disastrous after completing production, once the materials or equipment are delivered to site.

The Continuous Quality Surveillance Scheme relies basically on the following instruments:

- Continuity of the Appointed Inspector intervention (leaning on Independent Inspection Agencies)
- Pre-Inspection Meeting (PIM) at preliminary stage of manufacturing
- Inspection and Test Plan (ITP), detailed with specific Witness Points for each critical production step
- Formalisation of interventions by means of Notification of Inspection (NOI)
- Expediting activities to verify the effective progress of works, detecting and avoiding bottlenecks

Continuous Quality Surveillance Scheme (CQSS)



The Continuous Quality Surveillance of your vendors' activities is required to cover everything from the control of conformity of incoming material to the final inspection and delivery. Thus making possible the **detection of defects and problems** that otherwise would remain hidden until commissioning of the plant.

INSPECTEAM Hydro offers consultancy for the implementation of a CQSS system for specific Purchase Orders placed to your vendors.

Pre-Inspection Meeting (PIM)

Experience lead us to consider the PIM as the **point of clarification** of all the technical and quality aspects for all the subjects involved in the project (Client, Contractor, Supplier, Inspection Agency).

Inspection & Test Plan (ITP)

The Inspection and Test Plan (ITP) is a document for quality control defining **all the inspection and tests required** during the manufacturing process. For each point of inspection, the level of control required for each subject involved must be indicated (client, contractor, supplier and sub-suppliers, inspection agency). This allows the formalisation of surveillance during

the **whole manufacturing process**, until completion and delivery. The frequency of the intervention points assisted by the Appointed Inspector (Witness Points) is determined by the client depending on the importance of the component.

Notification for Inspection (NOI)

Referring to the points of inspection reported on the ITP, the **vendor is responsible for notification** of the dates of inspection scheduled to all the subjects involved. Therefore the vendor must issue upon notice, a Notification of Inspection (NOI) indicating the kind of control, applicable ITP line, date and duration forecasted for the activity and in general all the information required to carry out inspection activities in compliance with the ITP.

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We are your partner and expert whenever equipment quality and safety must be tested and inspected in accordance with international standards and regulations.

Quality Surveillance, Inspection, Testing & Expediting of turbine parts, heavy forgings, castings, welded constructions, mechanical components and electrical equipment.

