Professional NDT Consultancy and Level III Services All Aspects of NDT from One Source

With a comprehensive service portfolio, TÜV Rheinland Sonovation is the ideal partner for providing advanced non-destructive testing (NDT) services in accordance with international codes and specifications. We have at our disposal a large team of technically qualified, highly-skilled professionals able to offer world-class services covering all aspects of advanced NDT as well as the specific needs of every industry. TÜV Rheinland Sonovation operates a global competence center for non-destructive testing (NDT) for the TÜV Rheinland Group. Our approach strives to provide knowhow about specialized testing methods which require specialist expertise or mandate independent verification.

Written Practices

TÜV Rheinland Sonovation prepares and manages written practice requirements of NDT companies and other organizations with NDT capability. We act as liaison in determining needs, preparing written practice and if necessary, assisting in maintaining procedure. Furthermore, these services and solutions include training, advising, and recommendations in all matters relevant to the written practice.

Consultancy

In NDT, issues requiring creative problem-solving techniques often arise. TÜV Rheinland accomplished consultants assist in all such instances providing highlyskilled, expert analysis and reliable, cost-effective solutions.

Dispute Arbitration

Disputes between an inspection company and a client or indeed a licensing authority, usually resulting from misunderstanding or miscommunication in the areas of procedure, data collection or defect analysis, can be a source of irritation and confusion. TÜV Rheinland Sonovation mediatory services calls on level III teams to investigate and resolve issues in order to reach an outcome acceptable for all parties.

ScanPlan®

TÜV Rheinland Sonovation has developed a suite of software to automatically solve an inspection procedure in accordance with international codes. This system operates with time of flight diffraction (TOFD), phased array (PA) and conventional pulse echo methods. Generated reports document all aspects of a procedure, illustrating detailed procedural points and inspection coverage, to then be used in forming a basis for inspection work instruction.



Ultrasonic Procedure Validation

Level III teams at TÜV Rheinland Sonovation authorize procedures in accordance with the needs of each project. Using the ScanPlan® system to conduct practical tests on similar geometries, TÜV Rheinland Sonovation professionals are able to validate results and approve and assign procedures. Independent validation is an invaluable asset for NDT companies when issuing submissions to clients or authorities.

Ultrasonic Technique Modeling

In the inspection of welds with complex profiles such as nozzles and sweepolets, ultrasonic beam behavior is of paramount importance. TÜV Rheinland Sonovation uses software capable of defining transducer scanning parameters, simulating ultrasonic beam behavior and manipulating defect sizes, shapes and orientation within the model in order to examine the efficiency of the technique. Data resulting from this research then forms the basis for the procedural preparation and the technical justification presented to clients and licensing authorities.

AboutTÜV Rheinland:

Founded 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.



Our experience - your benefit

TÜV Rheinland Sonovation has over twenty years of experience with advanced NDT techniques and special applications. Our inspection team is one of the bestresourced in the world. Our involvement in equipment development, inspection solutions and accredited advanced NDT training courses demonstrate our commitment and leadership in this segment.

Your contact:

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