



NON DESTRUCTIVE TESTERS LIMITED

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Environmental Authorisation form for Nuclear Safety and Radiation Protection

Attachment # 1 - Occupation and Nature of Business

Non Destructive Testers Limited (NDTL), Trinidad Operations was established in 1990 and incorporated three years after, to provide a range of inspection, testing and heat treatment services to the petroleum, petrochemical and other energy related upstream / downstream industries. At present, NDTL employs a staff of approximately one hundred (100) employees, which is inclusive of both permanent and weekly paid Technicians, that are utilized as service demands. The office is strategically located in San Fernando, South Trinidad.

In June of 2018, NDTL registered its operations in Guyana – Non Destructive Testers Limited (Guyana) Inc. with the intent of providing similar services.

The company is led by a team of certified professionals who have spent the major part of their working lives in the practice of the technology which they offer to their clients. The Directors and Shareholders each have a minimum of thirty (30) years' experience in the non-destructive testing fields and combined with their qualifications they have provided an excellent foundation for this company.

The organization is attempting to apply for the relevant licence(s) specifically to operate Iridium 192 isotopes and industrial x-ray units (Comet EVO 300D X-ray Tube), magnetic particle inspection and liquid dye penetrant inspection.

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SERVICES PROVIDED:

NDTL offers a broad range of services to cater to all of its customers.

The following is a list of the services currently provided by NDTL (both locations):

1. Conventional NDE Inspection Services

- Radiographic Inspection (Gamma Ray & X-Ray)
- Magnetic Particle Inspection
- Liquid Dye Penetrant Inspection
- Ultrasonic Thickness & Flaw Detection
- Close Visual Inspection (CVI)
- General Visual Inspection (GVI)
- Ferrite Testing
- Heat Treatment Services (Pre Heat/PWHT)
- Hardness Testing
- Vacuum Box Testing
- Holiday Detection (Low/High Voltage)
- Load Testing (CCU/Proof Load)
- Welding Procedure Qualification
- Quality Control/Quality Assurance Services

2. Advanced NDE Inspection Services

- Computerized Radiographic Testing (CRT)
- Phased Array Ultrasonic Testing (PAUT)
- Phased Array Corrosion Mapping
- Pulsed Eddy Current Testing (PEC)
- Qualitative Short Range (QSR)
- Time of Flight Detection (TOFD)
- Eddy Current Testing (ET)
- Guided Wave Ultrasonic Testing (GUL) (*through NDT Partner*)
- Infrared Thermographic Inspection (IR)
- Positive Material Identification (PMI)

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3. Visual Aid Inspection Services

- Borescope Inspections
- Binocular Inspection
- Drone Inspection with IR capability (*through NDT Partner*)

4. American Petroleum Institute (API) License Inspections Services

- API 510 Pressure Vessel Inspection of Internal & External Pressure Vessels
- API 570 Piping Inspection on process piping, critical valves, PSVs
- API 653 Above Ground Storage Tank Inspections
- API 580 Risk Based Inspections-RBMI Asset Based Inspection

5. National Association of Corrosion Engineers (NACE) Inspections Services

- NACE CIP Level I,II,III Coating inspection services
- NACE-OCAT Inspectors for Offshore Corrosion Assessments
- NACE Basic Corrosion Inspectors
- QA/QC Inspection on Fabric Maintenance Projects
- Adhesion Testing and Consultancy Services.
- CP Inspection and Installation services (*through NDT Partner*)

6. American Welding Society (AWS) Inspections Services

- Provision of Certified Welding Inspectors
- QA/QC Inspection and verification on offshore and onshore Fabrication Projects
- WPS/ PQR Reviews and consultancy services

7. American Society Non Destructive Testing (ASNT)

- Provision of ASNT Level 3 Services
- ASNT Level 1 & II NDT Technicians
- Procedure and Documentation Reviews

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8. Rope Access Services (IRATA)

- Provision of IRATA Level 3 Supervision Services
- Supply of IRATA Level 1& 2 ASNT NDE CRT/UT/PAUTMT/PT Inspectors
- Supply of IRATA Level 1& 2 API 510/570/653 Inspectors
- Supply of IRATA Level 1& 2 NACE Inspectors
- Supply of IRATA Level CWI Inspectors
- Rope Access Equipment Inspection
- Rope Access Training for Level 1/2/3.

9. Statutory Inspection & Certification (OSHA)

- Certification of Air Receivers/Vessels and lifting devices

10. RBMI Engineering Support & Focal Point FTE Inspectors

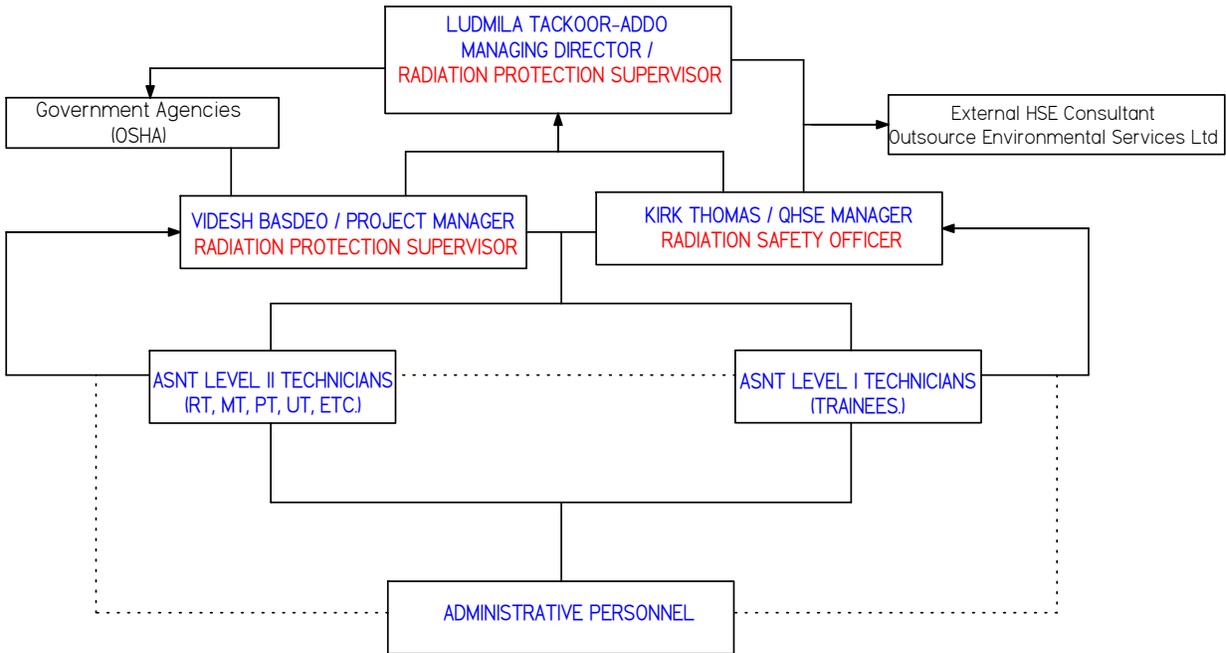
- Mechanical/Corrosion/Civil/Structural Engineers (*through NDT Partner*)
- RBMI Software Trained Inspectors
- Provision of QA/QC & Multi Skilled Inspectors to Turn Around Teams & Shutdown Teams
- Provision of API Multi Skilled Inspectors to assist Shell Engineers

11. In Development Services

- Failure Analysis Services
- Replica Testing Services

N.B: Continuing overtures to foreign entities into the specialized field of knowledge / plan of how to expand into the field of 'drill pipe' inspections.

Extraction of Organisation Chart showing lines of communication for all radiation safety matters



NOTE:

- 1) **Contact information for all RPS and RSO are listed in the Radiation Safety Manual**
- 2) **Reporting to Governmental Agencies is a shared responsibility of the Managing Director, Projects Manager and QHSE Manager.**