



**Raju Aji**

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### Career Profile

- Internal and external visual inspection, Corrosion under insulation (CUI) inspection for vessels, columns, reactors and heat exchanger.
- Implement the inspection program, assess the condition of topsides pressure equipment, above water structures and pressure piping components in accordance with Risk Based Inspection (RBI) manuals.
- Worked as a Boiler inspector in 1950 T/H capacity of Boiler(600MW) Power plant during the plant mechanical integrity project at Formosa, Taiwan.
- Internal, external visual inspection, and NDT has been carried out of boiler during the shutdown period at Qenos plant, Sydney.
- QA/QC activities performed in 600MW Power plant construction project at NCTPS, India.
- QA/QC activities performed in thermal power plant during in maintenance and shutdown at ETPS, India.
- Perform integrity inspection of internal, external floating roofs and fixed roofs tanks for various services such as crude oil storage, acetone, phenol, light oil and potable water tanks, etc.
- Recommendation of NDT methods for assessing the condition of equipment / repair work.
- Integrity inspections for all static equipment/facilities (Vessels, columns, heaters, heat exchangers, flares, etc. and piping's) and to report the findings with recommendations through Corrosion and inspection management system.
- To perform integrity inspection of internal, external floating roofs and fixed roofs tanks for various service such as crude oil storage, dehydration, skim, potable water tanks, etc.
- Co-ordinate with RBI teams and collects the process and inspection data from the field to build up the inspection programs.
- Recommendation of NDT methods for assessing the condition of equipment's / repair work.
- Daily review of equipment inspection records and historical records which executed by Formosa inspectors according to API-510/570/653/580/581.
- Conducting Welder Performance Qualification tests
- Conducting procedure qualification test and preparing PQR records.
- Carrying out dimension and visual inspection in accordance with drawings and specification.
- Checking drawing before erection and finished product as per the schedule.
- Ensure correct application of the Project Quality Plan in site activities.
- Supervision and coordination of the Quality Control activities.
- Implementation of the Quality Control Plans.
- Evaluate the qualifications of welders and Non-Destructive Test Technicians.
- Carrying out advance non-destructive testing such as manual phased array (PAUT), time of flight diffraction (TOFD), IRIS, ECT, RFT, NFT, TFT-MFL, RMS and computerized radiography.

### Achievements within Skill Sets

- Internal and external visual inspection, Corrosion under insulation (CUI) inspection for vessels, columns, reactors, waste heat boiler, power plant boiler and heat exchanger.
- Perform integrity inspection of internal, external floating roofs and fixed roofs tanks for various services such as crude oil storage, acetone, phenol, light oil and potable water tanks, etc.
- Perform maintenance, and turn-around examinations in the various inspection areas, i.e.; API 510, API 570, API 653, and weld inspection.
- Consulting for mechanical integrity assessment methodologies, inspection plan and report format according to API 510/570/653 /580 /581.

### Employment History

April 2013 - current	Chief Inspector/Technologist ARL Laboratory Services Pty Ltd.- API Inspector
Mar.2013	General Inspector (IBV) Germanisher Lloyd Industrial Services, Myanmar
Feb 2013	Plant Inspector, NTBC, KUWAIT

Dec 2012 - Feb 2013	Plant Inspector, SGS India Pvt Ltd, India
July 2012 - Nov 2012	Inspection Engineer, TUV Rheinland, Taiwan
Mar 2009 - Jan 2011	QA/QC Supervisor, SAIPEM – Kazakhstan and Nigeria
Jan 2008 - Feb 2009	Welding Inspector, CCIC –Abu Dhabi
July 2007 - Dec 2008	Welding Inspector, Dodsall Pet Limited - Qatar
July 2006 - July 2007	Welding Inspector, Ferrofabrics construction limited, India
May 2005 - June 2006	Welding Inspector, Dubai Dry Docks, Dubai.
Apr 2004 - Mar 2005	Welding Inspector, Micro Spears Construction Limited, India
Nov 2002 - Apr 2004	Fabrication Supervisor, Technova Construction Limited, India

### **Education & Certifications**

- ASNT LEVEL-III in:
  - Radiography Testing (RT)
  - Ultrasonic Testing (UT)
  - Penetrant Testing (PT)
- ASNT LEVEL-II in:
  - Radiography Testing (RT)
  - Ultrasonic Testing (UT)
  - Magnetic particle Testing (MT)
  - Penetrant Testing (PT)
  - Visual Testing (VT)
  - Time of flight diffraction (TOFD)
  - Phased Array ultrasonic testing (PAUT)
  - Ultrasonic Testing – Internal Rotatory Inspection System (IRIS)
  - Eddy Current Tube Testing (ECT)
  - Magnetic flux Leakage (MFL)
- PCN- Radiography film Interpretation (BINDT)
- PCN- Ultrasonic Testing (UT)
- PCN- Time of flight diffraction (TOFD)
- AWS - Senior Certified Welding Inspector (SCWI)
- CSWIP 3.2 Senior Welding Inspector
- CSWIP – 3.1 Welding Inspector
- AICIP- In-service Inspector
- API-653 Above Ground Storage Tank Inspector
- API-510 Pressure Vessel Inspector
- API-570 Piping Inspector
- API-577 Welding Inspection & Metallurgy
- API 571 – Advanced Corrosion & Materials
- API SIFE- Source Inspector
- OPITO - BOSIET & H2S (Expired)
- IRATA Rope Access Level -1, Atlas Access. (Expired)
- Tank Floor Testing (TFT) – Magnetic flux Leakage (MFL) On job training @ARL
- Rapid Motion Scanning RMS (Automatic UT Crawler) On job training @ARL
- Magnetic Bias Eddy Current tube testing, Kontroll Technik on job training @ARL
- Vertical Above Ground Storage Tank Calibration on job training @ARL
- Omni Scan Manual Phased Array Testing, Olympus.
- MS 5800 Olympus – (ECT, MFL, RFT and IRIS) - Tube test, Olympus.
- Eddy Ectane2 Pipe Scanner
- Portable OES Optical Emission Spectroscopy (PMI)
- Optical Emission Spectrometry – PMI (Portable) Belec Equipment
- On job Training in PWHT, ARL Laboratory Services, Sydney
- On job Training in Ferrite Testing, ARL Laboratory Services, Sydney
- On job Training in PMI-XRF, ARL Laboratory Services, Sydney
- On job Training in Rapid Motion Scanning UT Crawler, ARL Laboratory Services, Sydney
- On job Training in Vacuum Box Testing, ARL Laboratory Services, Sydney

- On job Training in Pressure Testing, ARL Laboratory Services, Sydney
- On job Training in Helium Leak Testing, ARL Laboratory Services, Sydney
- On job Training in Tank Calibration, ARL Laboratory Services, Sydney
- On job Training in flange face corrosion using by PAUT, ARL Laboratory Services, Sydney
- SLOFE tank and Pipe Scanner training, Kontroll Technik, Germany
- Eddyfi Ectane 2 Heat Exchanger Tube Training, Eddyfi
- Guided Wave Testing – Level 1 – GUL Training
- Eddyfi ACMF Training
- Eddyfi Pulsed Eddy Current Testing

### **Further Trainings**

1. Fire Warden Training
2. Rad safety License in industrial radiography - Safe Radiation
3. White card
4. Gas detection and breathing apparatus
5. Elevating Work Platform License
6. Gas detection and breathing apparatus
7. Working at Heights

### **Knowledge about Codes & Standards**

ASME Sec V, Sec VIII, Sec IX, API 1104, ASME B31.3, B31.4, B31.8, API 510, API 653, API 650, API 570, API 598, API RP577, API RP 580, API RP 571, API RP 572, API RP 572, API RP 574, API RP 576, API RP 581, AS3788, AS1210, AS4031

### **Handled materials**

CS, LTCS, P5, P11, 304L, 316L, INCONEL, COPPER-NICKAL, DUPLEX, CLAD MATERIALS (CS+316L, LTCS+304L), STRAINLESS STEEL DISSIMILAR MATERIAL (LTCS+304L, CS+316L).

### **Experience in welding process**

GTAW, SMAW, FCAW, GMAW (Manual and Automatic), SAW, FCAW (AUTO WELDING)

### **Work Experience**

Worked with the following major clients:

- CALTEX REFINERIES KURNELL, NSW, AUSTRALIA
- CALTEX REFINERIES LYTTON, QLD, AUSTRALIA
- KOPPERS CARBON MATERIAL, NEW CASTLE, AUSTRALIA
- CS ENERGY, BILEOLA, QLD, AUSTRALIA
- JEMENA LIMITED, AUSTRALIA
- SANTOS LIMITED, AUSTRALIA
- VIVA ENERGY, SYD, VIC, QND, AUSTRALIA
- EXXONMOBIL, AUSTRALIA
- SGS, AUSTRALIA
- LLOYD'S REGISTER, AUSTRALIA
- QENOS, SYD, AUSTRALIA
- ORICA, NEW CASTLE, AUSTRALIA
- DAEWOO E&P, MYANMAR
- EQUATE REFINERY, KUWAIT
- VIVA ENERGY, GEELONG, AUSTRALIA
- ONGC-MANGALORE PETROCHEMICALS LTD, INDIA
- FORMOSA, TAIWAN
- AGIP KCO, KAZAKISTAN
- SHELL, NIGERIA
- GASCO, ABU DHABI
- RAS GAS – QATAR
- SKODA EXPORT – INDIA