



# IAL ENGINEERING SERVICES GUYANA INC.

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20<sup>th</sup> January, 2025.

To: All Interested Parties

**RE: Request for Information; Non-Destructive Testing (N.D.T) Services**

IAL ENGINEERING SERVICES GUYANA INC extends an open invitation to service providers qualified in the field of Non-Destructive Testing (N.D.T) Services to submit a qualification package to our company for review.

Our group has been a dynamic provider of Integrated Services for over seventy-five years across the regional energy sector. We have been able to replicate this strength in competence and capacity within our Guyana operations, as an API Q1 certified Manufacturing Facility, well supported by our Industry-leading Technology Partners and Licenses.

To support our operations and in keeping with our stringent Quality Management System, we are interested in working with local suppliers of Non-Destructive Testing who can meet our rigid acceptance criteria and commitment to reliability and customer service. To supplement this invitation and detail our prerequisites, please review Appendix I for acceptance criteria details and Appendix II for a list of supporting documents to supplement your expression of interest.

All queries relating to the standards and criteria enlisted can be communicated to the contacts enlisted below. In advance of your submission, we wish to thank you for your interest in working with us, as we continue to aspire toward being the service provider of choice in Guyana.

Regards,

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Chandrashekhar Ramlal

Team Lead – Supply Chain Unit

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## **Appendix I: Acceptance Criteria**

### **Personnel Requirements**

Inspector's Training and Certification shall at a minimum meet the requirements of:

- Sec. 2.20 - Personnel Competency DS-1 Vol 3 5<sup>th</sup> Edition
- API RP-7G-2 or other applicable API Specifications
- ASNT-SNT-TC-1A 2024

Non-destructive inspection shall be conducted by ASNT Level II or III personnel, using the Inspection Company's procedures approved by an independent Level III personnel. Evaluation of indications shall be performed and reported by the Level II or III personnel who performed the Inspection.

All personnel performing Full-length Ultrasonic Inspection (FLUI) shall be qualified and certified.

Drill pipe and BHA inspectors shall have a minimum of one-year supervised experience from the date of initial Used Drill Pipe, BHA or DS-1 qualification.

***A log of ALL Inspection personnel currently employed by the Vendor, tracking the validity of the various levels of certification and competence shall be maintained by the Vendor and supplied to IAL upon request prior to performing NDE Inspection for IAL.***

### **Equipment & Calibration Requirements**

***All Testing, Measuring, Monitoring, and Detection Equipment (TMMDE) shall conform to the minimum requirements of the relevant sections of DS-1 Vol 3 5<sup>th</sup> Ed.***

Equipment Calibration shall meet the requirements of **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 2.21- Calibration Requirements and Table 2.1 - Calibration Frequency.**

### **Inspection Procedures**

#### **Preparation / Pipe Surface Condition**

Pipe Surface Condition Shall Conform to **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.4.3 b & c- Preparation. DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 5.6.8- Scale, Heavy Coatings, Plastic Coatings**

#### **Identification and Traceability**

Inspections shall be traceable to the specific CSP (Customer Supplied Product) by uniquely numbering or recording permanent serial numbers for each item inspected and shall be independently verified by the Inspection Company's designated inspector/personnel.



***If a serial number is not found on the CSP, IAL shall be notified, and with the CSP owner's permission a unique number shall be reapplied to the CSP. Stamps shall not be larger than 3/8 inch.***

#### **Ultrasonic Wall Thickness Inspection**

Ultrasonic Wall Thickness Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.6**

#### **Dimensional 1 Inspection**

Dimensional 1 Inspections shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.12 b.** HWDP tool joints shall meet the requirements of **DS-1 Vol 3 5<sup>th</sup> Ed. section 3.14.4.l or Table 3.10.1**

#### **Visual Tube Inspection**

Outer Visual Tube Inspection Shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. 5<sup>th</sup> Ed. Sec. 3.4.1, 3.4.2 & 3.4.4.**

Tube straightness shall meet the requirements of **DS-1 Vol 3 5<sup>th</sup> Ed. 5<sup>th</sup> Ed. Sec. 3.4.4g.**

Inner Visual Tube Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.4.4f & 3.4.5 Evaluation of Internal Plastic Coating & Table 3.1 – Used Drill Pipe Internal Plastic Coating Evaluation**

#### **OD Gage Tube Inspection**

OD Gage Tube Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.5**

#### **Heat Checking Inspection**

Heat Checking Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.8**

#### **MPI Slip/Upset Inspection**

MPI Slip/Upset Inspection (including tool joints) shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec.3.9**

#### **Visual Connection Inspection**

Visual Connection Inspection (VTI) shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.11 and/or Proprietary connections field inspection procedure as applicable.**

#### **Connection Inspection**

##### *Blacklight Connection Inspection*

Blacklight Connection Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.15**

##### *Liquid Penetrant Connection Inspection*

If the tool is nonmagnetic, substitute procedure **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.17**, Liquid Penetrant Inspection for Blacklight Connection Inspection.



### **Dimensional 2 Inspection**

Dimensional 2 Inspections shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.13 and Sec. 3.14 (Dimensional 3) for Heavy Weight Drill Pipes and/or Proprietary connections field inspection procedure as applicable.**

### **Colour Code Tool Joints & Mark Reason for Rejection**

Connections shall be colour coded & marked in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.35.5.2b & Table 3.13.2**

### **Additionally (when required and specified):**

Accepted used connections shall have a single 1-inch white band painted on the connection OD 2 inches ( $\pm 1/4$  inch) adjacent to the shoulder.

- Recut Connection – Yellow
- Reface Connection – Green
- Reface & Polish Threads – Blue
- Polish Threads – Blue

### **Hardband Inspection**

Hardbanding Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.11.4 b.**

**Post Welding Inspection** Hardbanding reapplication shall be post application inspected in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.22.5 & Customer Specific Hardbanding Specifications (when applicable).**

**Electromagnetic Inspection (EMI)** Electromagnetic Inspection (EMI) shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.7**

### **UT Connection Inspection**

UT Connection Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.16**

### **Ultrasonic (UT) Slip/Upset Area Inspection**

Ultrasonic (UT) Slip/Upset Area Inspection shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.10**

### **Full Length Ultrasonic Inspection (FLUT)**

Full Length Ultrasonic Inspection (FLUT) shall be performed in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.30 & Customer Specific Guidelines & Specifications (when applicable).**

***When applicable FLUT (WT/TL) shall be performed on drill pipe in lieu of UT Connection & Slip/Upset Area Inspection when either the nominal wall thickness is greater than 0.400" or verification of wall thickness along the entire tube length is critical.***



### **Demagnetization**

All drill pipes shall be demagnetized in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.34**

This shall be performed at this stage prior to any repairs performed.

### **Color Code Tube – Post Inspection Markings**

Tube class shall be color coded in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec. 3.35.5 & Table 3.13.1**

Post inspection markings shall be in accordance with **DS-1 Vol 3 5<sup>th</sup> Ed. Sec 3.35.5.1c & 3.35.5.2a**

### **Acceptance Criteria**

*Acceptance Criteria for NDE Inspection of Used equipment shall be in accordance with the specific relevant Procedure and Acceptance Criteria sections of DS-1 Vol 3 5th Ed. and Customer Specific Guidelines and Specifications (when applicable).*

*Acceptance Criteria for New Manufactured equipment shall be in accordance with the following sections of API Spec 6A:*

- *Section 10.4.2.10 Surface NDE—Ferromagnetic Materials,*
- *Section 10.4.2.11 Surface NDE—Non-Ferromagnetic Materials*



**Appendix II: Submission Checklist**

ELEMENT	SUBMITTED	
	Yes	No
<b>QUALITY ASSURANCE</b>		
Quality Management System Manual (Minimally, its Table of Contents)	<input type="checkbox"/>	<input type="checkbox"/>
Quality Certification	<input type="checkbox"/>	<input type="checkbox"/>
<b>QUALITY CONTROL</b>		
NDT-related Procedures, as approved by an ASNT Level III	<input type="checkbox"/>	<input type="checkbox"/>
Evidence of an Equipment Log for all Testing, Measuring, Monitoring and Detection Instruments (Evidence of repair/recalibration frequency and management)	<input type="checkbox"/>	<input type="checkbox"/>
<b>SUPPLIER / CONTRACTOR MANAGEMENT</b>		
Procedure for Purchasing & Sub-Contractor Management (Written process demonstrating the extent of control on Suppliers)	<input type="checkbox"/>	<input type="checkbox"/>
<b>COMPETENCE</b>		
Certification or Sample Certification for personnel based on defined criteria herein	<input type="checkbox"/>	<input type="checkbox"/>

Company Name: \_\_\_\_\_

Authorized Party: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



### Appendix III – RFI Instructions on Completion of NDE Supplier Questionnaire

Please complete Questionnaire, elaborating on each item as appropriate and keeping the following in mind:

- Please respond to each question as thoroughly as possible.
- The fields are not controlled. We have provided the form in an excel format to allow for your ease of responding.
- Please submit your response in **electronic** form via Adobe PDF when completed.
- Your E-mailed responses should not exceed 5MB. If your submission is >5MB, we recommend multiple submissions not exceeding 5MB.
- **Please note that this is a preliminary RFI and pricing is not required at this stage. Do NOT submit pricing.**
- Your submittal should not include information which you consider proprietary, trade secrets or confidential. Please indicate where this is so.
- **Please submit all questions to email address: [IGI.Purchasing@ial-int.com](mailto:IGI.Purchasing@ial-int.com)**
- If a meeting is deemed required to support clarifications or discuss this scope further, all suppliers will be notified with an invitation accordingly.

### Appendix IV – Relevant Dates to this RFI Process

<b>January 20<sup>th</sup> 2025</b>	RFI to be issued through the Center for Local Business Development
<b>February 20<sup>th</sup> 2025</b>	Deadline for Suppliers to submit completed RFI
<b>February 2025</b>	Evaluation of RFI responses
<b>March 2025</b>	Potential Commencement of RFP invitations



## Appendix V – Submission Guidelines

- Submissions are to be emailed to [IGI.Purchasing@ial-int.com](mailto:IGI.Purchasing@ial-int.com)
- Responses and related attachments are to be in PDF format
- Documents required:
  - NDE Supplier Questionnaire
  - Supporting documents to Questionnaire defined on the Submission Checklist enlisted within Appendix II
- Send submission email with the following email caption: IGI NDE RFI - <Company Name>
- Kindly note that it is not a requirement to register at the CLBD to respond to our RFI as this invitation is open to all interested companies.