Sub-sector categorization for Inspection Bodies for accreditation under PNGRB Regulations

BCB 503 (O&G)-February 2021

Effective Date: 28 February 2021
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1. Backdrop:

While accrediting the Inspecting Bodies for ISO17020 with respect to IAF Scope Sectors-26 (Natural Gas Pipeline or NGPL & City Gas Distribution or CGD, Liquefied Natural Gas or LNG), 31a (Petroleum & Petroleum Products pipelines or PPPL, LPG Bottling and Over-ground/Refrigerated/Underground and Cavern storage facilities) and 34 (Emergency Response & Disaster Management Plan or ERDMP) with traceability to PNGRB’s Technical T4S, IMS and ERDMP Regulations, it has been observed by NABCB that individual IBs are competent in one of following:

a) IAF Scope Sectors-26 and 31a:
   • **Stage-Wise inspection** ie from pipeline laying to final commissioning during Construction, specific or in combinations, in field of Inspection of CGD/NGPL/LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.
   
   • **In-service T4S Audit** ie during Operation of facility, involving *T4S Audits & / or Integrity Management System or IMS assessment*, specific or in combinations, in CGD/NGPL/ LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.
   
   • **Both Stage-Wise Construction inspection & In-service Audit**, specific or in combinations, in CGD/NGPL/LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.

b) IAF Scope Sector-34 ERDMP:
   • **In-service Inspection** for Verification of ERDMP in downstream areas ("a" to “i” as identified in ERDMP Regulations-2010 of PNGRB (in combinations or entire mid and downstream chain).

2. Sub-classification of IAF Scope Sectors (26, 31a and 34)

In view of above, NABCB shall consider following Sub-classification under Scope Sectors 26, 31a and 34):

A) Scope Sector-26 (Gas Supply): T4S Regulations for CGD, NGPL & LNG and IMS Regulations for CGD and NGPL

   **26-A: Natural Gas Pipelines Regulations-2009** (Stage-wise Construction & T4S Audit)

   26-A(i): T4S Regulations of PNGRB for Natural Gas Pipelines (Stage-wise Construction inspection)

   26-A (ii): T4S Regulations of PNGRB for Natural Gas Pipelines (In-service T4S Audit)

   26-A(iii): T4S Regulations of PNGRB for Natural Gas Pipelines (Stage-wise Construction inspection and In-service T4S Audit)

   **26-B: City Gas Distribution Regulations-2008** (Stage-wise Construction & T4S Audit)

   26-B(i): T4S Regulations of PNGRB for City Gas Distribution (Stage-wise
Construction inspection of Steel Mains, PE and PNG)

26-B(ii): T4S Regulations of PNGRB for City Gas Distribution (In-service T4S audit of Steel Mains, PE and PNG)

26-B(iii): T4S Regulations of PNGRB for City Gas Distribution (Stage-wise Construction inspection and In-service T4S audit of Steel Mains, PE and PNG)

26-C: Integrity Management System (IMS) Regulations-2012 & 2013 for NGPL & CGD

26-C(i): PNGRB Regulations for IMS of Natural Gas Pipelines (In-service Inspection)

26-C(ii): PNGRB Regulations for IMS of City Gas Distribution (In-service Inspection)

26-D: T4S Regulations-2018 of PNGRB for Liquefied Natural Gas (LNG) Facilities-Stage-wise Construction & T4S Audit

26-D(i): T4S Regulations of PNGRB for LNG facilities (Stage-wise Construction inspection)

26-D(ii): T4S Regulations of PNGRB for LNG facilities (In-Service T4S audit)

26-D(iii): T4S Regulations of PNGRB for LNG Terminal facilities (Stage-wise Construction and In-Service T4S audit)

C)Scope Sector-31a: T4S for Petroleum & Petroleum Products Pipelines Regulations-2016 and T4S for LPG Storage, Handling and Bottling Facilities Regulations-2019: Stage-wise Construction & In-Service T4S Audit:

31a-(i): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (Stage-wise Inspection)

31a-(ii): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (In-service Inspection)

31a-(iii): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (Stage-wise and In-Service Inspection)

31a-(iv): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (Stage-wise Construction Inspection)

31a-(v): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (In-Service T4S Audit)

31a-(vi): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (Stage-wise Construction Inspection and In-Service T4S Audit)
31a-(vii): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (Stage-wise Construction Inspection)

31a-(viii): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (In-Service T4S Audit)

31a-(ix): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (Stage-wise Construction Inspection and In-Service T4S Audit)

31a-(x): T4S Regulations of PNGRB for LPG Cavern (Stage-wise Construction Inspection)

31a-(xi): T4S Regulations of PNGRB for LPG Cavern (In-Service T4S Audit)

31a-(xii): T4S Regulations of PNGRB for LPG Cavern (Stage-wise Construction Inspection and In-Service T4S Audit)

D) Scope Sector-34: Emergency Response and Disaster Management Plan (ERDMP) Regulations-2010

34-(i): ERDMP Regulations of PNGRB (In-Service- a/b/c/d/e/f/g/h/i as applicable under item-3 of Regulations)

34-(ii): ERDMP Regulations of PNGRB (In-Service-entire downstream areas as applicable under item-3 of Regulations)
3. Sample template of Inspection Body Scope of Accreditation

<table>
<thead>
<tr>
<th>S. No.</th>
<th>IAF Scope Sector Classification Code (Indicative)</th>
<th>Field of Inspection</th>
<th>Type and Range of Inspection</th>
<th>Standards / Regulationss /Methods /Procedures</th>
<th>Office(s) where competence of scope exists</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>IAF Scope-26</td>
<td>Gas Supply – CGD /NGPL/LNG with item 26-A/B/C/D (i/ii/iii)</td>
<td>Stage-wise / In-service</td>
<td>PNGRB’s GSR 808(E) dated 11.11.2009 along with latest amendments, national/ international standards mentioned therein and relevant statutes</td>
<td>PNGRB’s “Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines” Regulations, 2009</td>
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<tr>
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<td></td>
<td>PNGRB’s GSR 612(E) dated 27.08.2008 along with latest amendments, national/ international standards mentioned therein and relevant statutes</td>
<td>PNGRB’s “Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Network” Regulations, 2008</td>
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<td></td>
<td>PNGRB’s Infra/IM/NGPL/1/2010 dated 05.11.2012 along with national/ international standards mentioned therein and relevant statutes</td>
<td>PNGRB’s “Integrity Management System for Natural Gas Pipelines” Regulations, 2012</td>
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<td></td>
<td>PNGRB’s Infra/IM/CGD/1/2013 dated 16.05.2013 along with national/ international standards mentioned therein and relevant statutes</td>
<td>PNGRB’s “Integrity Management System for City or Local Natural Gas Distribution Network” Regulations, 2013</td>
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<td>No.</td>
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<td>3</td>
<td>IAF Scope-34</td>
<td>Emergency Response &amp; Disaster Management Plan (ERDMP) with items 34(i) / (ii) Note: Name of Downstream area(s) to be mentioned</td>
<td>In-service</td>
<td>GSR 39 (E) Dated 18.01.2010 along with latest amendments, national/ international standards mentioned therein and relevant statutes.</td>
<td>PNRGB’s “Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP)” Regulations-2010</td>
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</table>
### 4.0 Amendment Record

<table>
<thead>
<tr>
<th>Date</th>
<th>Auth. By</th>
<th>Description of Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 August 2020</td>
<td>NABCB TC</td>
<td>Sub-classification of Scopes as per PNGRB Regulations for LNG and LPG Facilities</td>
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<tr>
<td>09 February 2021</td>
<td>PNGRB</td>
<td>Created new sub-classification for Refrigerated LPG Storage facilities</td>
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