



INTEGRITY CHALLENGES FORUM (ICF) TASK FORCE 2:

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Author(s):	ICF Task Force 2 Members
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Contents

1 SUMMARY	3
2 BASIC ORGANIZATION	4
2.1 Committee Members:	4
3 ICF TF2 2020 OBJECTIVES	5
3.1 Interpretation and Conclusions	Error! Bookmark not defined.
Appendix A – ARPIA AB 521 User Input	Error! Bookmark not defined.
Appendix B – 2021 Industry Survey Results	8

1 SUMMARY

What is the Intention of the Forum?

- **The Challenge:** Industry working as a team to identify and solve industry issues
- **IPEIA Mission:** forum interaction between industry, regulators and educators. Create a platform to discuss industry specific issues.
- **IPEIA's Role:** is to facilitate the process. IPEIA provides linkage between the various Industry Groups, volunteers and staff to manage meetings and logistics. IPEIA schedules, hosts, chairs and takes minutes ICF meetings
- **The Integrity Challenge:** is an important part of the IPEIA Special Sessions. Special Sessions activities include:
 - ✓ Industry specific training
 - ✓ Corporate Workshops
 - ✓ Industry Group meetings
 - ✓ Regulator Updates
 - ✓ Integrity Challenge Forum



2 BASIC ORGANIZATION

To ensure that all segments of industry were represented IPEIA requested that Industry Groups (IGs) provide committee volunteers representing their industry segment and that this representative group works on industry issues. Interested individual industry members were also part of the discussions.

Participants in the ICF include:

- IPEIA volunteers to provide ICF Task Force 2 facilitation
- Volunteer representatives from Industry Groups
- Interested industry members

2.1 Committee Members:

Members who committed their time and effort regularly and attended bi-weekly meetings.

IPEIA ICF LEADS:

- ❖ Dr. Izak Roux – Roux Engineering
- ❖ Rob Vesak – Trust Integrity Management
- ❖ Jim Yukes - AVH Engineering

Task Force # Members (representing Industry Groups)

Industry Group / IPEIA Members	Name
UPSTREAM CHIEF INSPECTOR ASSOCIATION (UCIA)	Doug Brett- Secure Energy
SASKATCHEWAN INTEGRITY ASSOCIATION (SIA)	Justin McRae – Consumers' Cooperative Refining
GENERATION UTILITIES ADVISORY COMMITTEE (GUAC)	Izak Roux – Roux Engineering Shawn Santo – Rae Engineering
CONTRACT CHIEF INSPECTORS ASSOCIATION (CCIA)	Trevor Paananen – CCIA Chair / Rae Engineering Nathan Bartley – Acuren Marc McGill – ATW Inspections
ALBERTA REFINERS AND PETROCHEMICAL INSPECTORS ASSOCIATION (ARPIA)	Jason Caron - Keyera
ALBERTA PRESSURE PIPING CONTRACTORS ASSOCIATION (APPCA)	Billy Lee – PCL Dean Lunt – Ledcor Scott Thompson - Ledcor
IPEIA MEMBERS	Rob Vesak – ARPIA Past Chair / Trust Integrity Management Cody Scheu – CNRL

	Alex Warthe – BCOGC Josh Wierenga – Tourmaline Oil Tim Ericson – Air Products
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2 ICF TF2 2022 OBJECTIVES

To our knowledge, the 2019 ICF is the first instance where the Pressure Equipment Integrity Industry Groups came together as one to provide solutions to Pressure Equipment Integrity issues, because of covid related delays 2020 marked the second and third years for the ICF.

Prior to the 2020 conference, IPEIA ICF volunteers approached IGs and requested that they provide issues related to Pressure Equipment integrity for discussion at the conference. The IG Chairs provided input via telephone conversations and email.

The discussion topics supplied by the Chairs included:

1. AB 521 Engineered Pressure Enclosure Approval Process
2. Prescriptive Regulatory Processes for Integrity need to be Streamlined across provinces

The goal was to

The ICF meeting was held at the 2020 IPEIA conference in Banff on Wednesday morning as part of the Special Sessions segment of the conference. The meeting was held over a 2-hour period at the Kinnear Centre. Mr. Nick Marx acted as moderator; described the ICF concept to the audience, provided a summary of TF1 results, and supplied the discussion questions. Discussions concerning the ICF topic were held at 12 tables, with 10 people per table. Each table had a moderator who gathered comments from around the table. Periodically table facilitators were called to the microphones by the moderator to readout the comments from their table which were recorded by two scribes, Ms. Martine Campbell and Ms. Ursula Winster-Goodfellow.

An aggressive meeting schedule of one, 1 hour meeting every second Thursday was initiated starting in May 2020. IPEIA set up on-line meetings, supplied meeting agendas based on agreed topics and IPEIA volunteers facilitated the meetings. Discussions were recorded both digitally and through minute taking. Meeting minutes were distributed to the various TF2 members through an MS Teams link after each meeting. IG representatives gave TF2 progress reports to their respective groups at their regular meetings.

After a series of meetings numerous streamlining opportunities were discussed and addressed including:

- Communicating AB 521 EPE updates between the various IGs
- 2 tier integrity programs
- Recognition of audits by western provinces
- Surveying industry members during a 2021 webinar to clarify the TF2 direction
- Streamline integrity management across western provinces
- Formation of a CSA B51 – Boiler, Pressure Vessel, and Pressure Piping Code Annex sub-committee

3 ICF TF2 2022 INTERPRETATION and CONCLUSIONS

IG members in TF2 communicated the outcome of ARPIA's request for updates to AB 521 to their respective groups. Jason Carron summarized the changes in an ICF June 2022 webinar. (Appendix A)

TF2 developed and distributed a survey to industry members and received 154 responses. See the survey for additional information. (Appendix B)

TF2 identified the need for an annex to CSA B51 as a first step in harmonizing Pressure Equipment Integrity Programs inter-provincially and made the request to the B51 committee via an emailed letter from IPEIA's ICF committee and using a CSA Request for Change form. Volunteers willing to work on the annex were identified.

TF2 also determined that new questions for a new 2022/2023 Committee was needed. TF2 considered it important that the Pressure Equipment Integrity sector continue to work together to solve industry related issues with a single voice and to ensure the ICF continued to address industry issues over time.

Appendix A

ARPIA AB 521 User Input



ARPIA – Alberta Refineries and Petrochemical Inspectors Association – AB 521 User Input

- AB-500 series documents go through periodic reviews, ABSA has recognized a need for user input
- ABSA reached out to ARPIA with a formal request for user input on AB -521
- A formal user input process was established between ARPIA and ABSA
- User feedback was collected, consolidated, and provided to ABSA
- A significant effort was made by ABSA to review, discuss, and understand the user inputs received.
- Ultimately the user input resulted in a significant change to AB -521.

Appendix B

2021 Industry Survey Results

IPEIA 2021 Industry Survey

A survey was completed by IPEIA members for the Integrity Challenge Forum. The survey was sent out to all members of IPEIA in March 2021 with 154 respondents. This response is considered to be an above average response from those that were sent the survey.

Who responded?

This question allowed for multiple answers, such as a Professional Engineer, and Chief Inspector or In Service inspector, thus we received twice as many responses than the number of people answering the survey. On average each respondent answered with two roles or titles. By far the respondents were In Service Inspectors, Chief Inspectors and Owner User management. (168/154), keeping in mind that some may have answered yes to all three.

Service Providers, Fabricators and Other made up (53/154) responses, again some of these would as well be duplicated.

In many of the answers between 17 – 10 respondents did not answer the question as they stated that this was not applicable to their company. This was consistent for most questions on streamlining and harmonization.

Where did the Majority of the Responses come from?

The answer to this one is simple, 146 of the 153 respondents firmly have one leg in Alberta. This was one of those questions where you could select more than one answer, in fact 391 answers were provided.

The remaining representation was from BC - 83, Saskatchewan - 82, Manitoba - 36, and Ontario -31.

Several entered in the comment section that they work across Canada, NWT, NB, NFLD some US and some International and off shore.

With a total of 391 answers, most respondents have business in Alberta, and work across more than one province. This is an important point as many of the survey questions were regarding Harmonizing or Streamlining across the Western Provinces.

To draw a simple conclusion from the above two questions, the majority of the respondents work as Inspectors or Chief Inspectors and have multiple programs in different provinces.

Conclusions

There is strong support for change, either harmonization or streamlining of the way Pressure Equipment is managed across the 3 Western Provinces. Condensed responses are bulleted below,

- Streamline Integrity management across the three Western Provinces 120 yes, 11 no change,
- Have one Integrity Program accepted across the three Western Provinces 121 yes, 12 no,
- One set of Guiding documents across the three Western Provinces 123 yes, 12 no,
- Should there be a multi- tier Pressure Integrity Program 112 yes, 23 no,
- Should Audits be recognized by all Western Provinces 117 yes, 13 no,

For additional insights into the survey, it is worth reading through the results and drawing conclusions. Not all questions are discussed in this summary, only those that act like a needle on a compass.

Did we get a good sampling of appropriate representation – Yes

Did the responses reflect the needs of a clear majority – Yes

Where do we go with the results next?

Are the responses enough to move forward?

Knowing that no system is perfect, great care must be taken at the next step to work to improve the existing systems, change should not come at a cost of speed or impact the current system of Industry Group/Government Input and partnership. For these reasons alone we are presenting the results to the larger IPEIA body and seek input to ensure the direction taken is as one body together to Streamline and Harmonize.