

# **Facilities Joint Use Program**

# **Industry Connections Activity Initiation Document (ICAID)**

Version: 3.0, 1 February 2022

IC18-001-03 Approved by the CAG on 14 March 2022

#### **Instructions**

- Instructions on how to fill out this form are shown in red. It is recommended to leave the instructions in the final document and simply add the requested information where indicated.
- Shaded Text indicates a placeholder that should be replaced with information specific to this ICAID, and the shading removed.
- Completed forms, in Word format, or any questions should be sent to the IEEE Standards Association (IEEE SA) Industry Connections Committee (ICCom) Administrator at the following address: industryconnections@ieee.org.
- The version number above, along with the date, may be used by the submitter to distinguish successive updates of this document. A separate, unique Industry Connections (IC) Activity Number will be assigned when the document is submitted to the ICCom Administrator.

### 1. Contact

Provide the name and contact information of the primary contact person for this IC activity. Affiliation is any entity that provides the person financial or other substantive support, for which the person may feel an obligation. If necessary, a second/alternate contact person's information may also be provided.

Name: Brenda Sears

Email Address: <u>bsears@trccompanies.com</u>

Employer: TRC Affiliation:

IEEE collects personal data on this form, which is made publicly available, to allow communication by materially interested parties and with Activity Oversight Committee and Activity officers who are responsible for IEEE work items.

## 2. Participation and Voting Model

Specify whether this activity will be entity-based (participants are entities, which may have multiple representatives, one-entity-one-vote), or individual-based (participants represent themselves, one-person-one-vote).

**Entity-Based** 

# 3. Purpose

### 3.1 Motivation and Goal

Briefly explain the context and motivation for starting this IC activity, and the overall purpose or goal to be accomplished.

The Joint Use group is a forum for Electric Power Utilities, Telecomm and Cable Companies, Regulators, etc. to coordinate and develop consistent approaches/methodologies/rules for joint use of





facilities. This generally refers to attachments to electric transmission and distribution (T&D) facilities for communications antennae, equipment and/or cable.

With the emergence of new communications networks and emerging technologies which depend on widely distributed communications (e.g. 5G and IoT) infrastructure, the needs of vertical real-estate for use in communications is expected to dramatically increase in the coming years. While electric T&D facilities provide an excellent platform to help meet these needs, there are significant safety and reliability issues associated with their use. The objective of this group will be to coordinate those issues and to develop both consistent approaches amongst companies involved in joint-use and standards and/or worker certifications for workers involved in joint-use attachments.

This activity has built a highly engaged group of experts involved with Joint Use issues. The group will continue to uphold and build upon the work that it has accomplished so far. It will also complement the work of IEEE Standards Association P2939 Joint Use Working Group (a standards project originated by this Industry Connections activity), as well as seeking additional standards opportunities and related knowledge sharing activities for Joint Use stakeholders and practitioners.

### 3.2 Related Work

Provide a brief comparison of this activity to existing, related efforts or standards of which you are aware (industry associations, consortia, standardization activities, etc.).

Many of the rules for attachments to electric utility facilities are covered in the National Electrical Safety Code (NESC). These include clearance requirements and high-level work rules for workers who are near live conductors. The group will leverage these existing rules, but will also be looking at issues such as loading vs. design and resiliency across networks (to include restoration and disaster recovery) by exploring recommended strategies.

There is a small non-profit organization doing similar work in Oregon, Oregon Joint Use Association (OJUA), (restricted to within that state); this group is participating in the IC activity and shares lessons learned with the larger effort. The OJUA helps to clarify and expand the objectives of this new group.

IEEE Joint Use Working Group P2939 is a related group. The result of that working group will be an IEEE guide that addresses some of the known joint use aspects that impact the success of rolling out communications networks.

# 3.3 Previously Published Material

Provide a list of any known previously published material intended for inclusion in the proposed deliverables of this activity.

IEEE Whitepaper produced by this activity: "Establishing Consistency in Joint Use Applications with 5G Wireless Facilities" – published Fall 2019

IEEE-SA Whitepaper – "The Oregon Joint Use Association and the National Electrical Safety Code. A Progressive Model for Industry Cooperation."

### 3.4 Potential Markets Served

Indicate the main beneficiaries of this work, and what the potential impact might be.





Current program would cover the United States. The main beneficiaries will be Electric Utilities, Communication Companies, and State Regulators. All of these groups will benefit from collaboration and increased efficiency and safety. Benefits also include the development of resources, including IEEE papers and guides, workshops, webinars, and industry communications.

# 3.5 How will the activity benefit the IEEE, society, or humanity?

Describe how this activity will benefit the IEEE, society, or humanity.

This IC group is highly complementary to the work of NESC volunteers, many of whom participate in this activity. Standards, guides and recommended practices will be very beneficial to stakeholders, particularly to help drive consensus towards a national approach, rather than the complex jurisdictional based approach currently in place. The current process is particularly challenging given the emergence of new 5G and other attachments often provided by nationwide infrastructure operators, that must abide by a multitude of local rules.

In order for society to close the broadband gap and to see the benefits of larger, more technically advanced communications networks, the numerous entities that are involved will need to work together and collaborate. This IC group offers experience as well as industry best practices that encourage and promote partnership and safe work practices.

# 4. Estimated Timeframe

Indicate approximately how long you expect this activity to operate to achieve its proposed results (e.g., time to completion of all deliverables).

**Expected Completion Date:** 03/2024

IC activities are chartered for two years at a time. Activities are eligible for extension upon request and review by ICCom and the responsible committee of the IEEE SA Board of Governors. Should an extension be required, please notify the ICCom Administrator prior to the two-year mark.

#### 5. Proposed Deliverables

Outline the anticipated deliverables and output from this IC activity, such as documents (e.g., white papers, reports), proposals for standards, conferences and workshops, databases, computer code, etc., and indicate the expected timeframe for each.

The primary objective of this group is to develop consistent recommendations for agreements/standards/methodologies for the evaluation and inter-company cooperation on managing attachments on Electric & Telecom Utility Infrastructure.

- One IEEE white paper has been completed by this activity and has served as the framework for a new IEEE SA P2939 working group and guide that is currently in production
  - "Establishing Consistency in Joint Use Applications with 5G Wireless Facilities"
  - o Published Fall 2019
- This group will serve as support after the publication of the Guide that is being created by the P2939 working group. After the Guide is published and the working group is disbanded, this group will remain in place to provide related guidance to the industry. Additionally, the group will foster the creation of supplemental documentation and training programs.
  - The group will collect edits and revision requests for the published Guide.





- The group will create (with IEEE support) approved presentations or handout material that the group can utilize when presenting and training.
- Pursue issues around an appropriate training syllabus for workers on joint use structures. Some states and utilities already over this type of classroom training. Our goal will be to expand their audience and outreach.
- Explore white paper and guide on recommended physical and operational strategies to improve network reliability and resilience.

# **5.1 Open Source Software Development**

Indicate whether this IC Activity will develop or incorporate open source software in the deliverables. All contributions of open source software for use in Industry Connections activities shall be accompanied by an approved IEEE Contributor License Agreement (CLA) appropriate for the open source license under which the Work Product will be made available. CLAs, once accepted, are irrevocable. Industry Connections Activities shall comply with the IEEE SA open source policies and procedures and use the IEEE SA open source platform for development of open source software. Information on IEEE SA Open can be found at <a href="https://saopen.ieee.org/">https://saopen.ieee.org/</a>.

Will the activity develop or incorporate open source software (either normatively or informatively) in the deliverables? No – Not expected at this time

# **Funding Requirements**

Outline any contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities. Indicate how those funds are expected to be obtained (e.g., through participant fees, sponsorships, government, or other grants, etc.). Activities needing substantial funding may require additional reviews and approvals beyond ICCom.

No immediate funding is required. Most meetings will be via teleconference and any in-person activities will seek participating companies to act as meeting hosts. Some face to face meetings has taken place at the IEEE/PES meetings. The basic support services provided to IC activities will be sufficient to meet the needs of this activity.

## 6. Management and Procedures

# 7.1 Activity Oversight Committee

Indicate whether an IEEE Standards Committee or Standards Development Working Group has agreed to oversee this activity and its procedures.

Has an IEEE Standards Committee or Standards Development Working Group agreed to oversee this activity? No

If yes, indicate the IEEE committee's name and its chair's contact information.

**IEEE Committee Name:** Committee Name

Chair's Name: Full Name

Chair's Email Address: who@where

Additional IEEE committee information, if any. Please indicate if you are including a letter of support from the IEEE Committee that will oversee this activity.





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### 7.2 Activity Management

If no Activity Oversight Committee has been identified in 7.1 above, indicate how this activity will manage itself on a day-to-day basis (e.g., executive committee, officers, etc.).

Each Working Group has a chair who manages the working group. The chairman of this IC activity has started to help coordinate between the Working Groups

### 7.3 Procedures

Indicate what documented procedures will be used to guide the operations of this activity; either (a) modified baseline *Industry Connections Activity Policies and Procedures* (entity, individual), (b) *Abridged Industry Connections Activity Policies and Procedures* (entity, individual), (c) Standards Committee policies and procedures accepted by the IEEE SA Standards Board, or (d) Working Group policies and procedures accepted by the Working Group's Standards Committee. If option (a) is chosen, then ICCom review and approval of the P&P is required. If option (c) or (d) is chosen, then ICCom approval of the use of the P&P is required.

The Industry Connections Activity baseline P&Ps will be used.

# 7. Participants

## **8.1 Stakeholder Communities**

Indicate the stakeholder communities (the types of companies or other entities, or the different groups of individuals) that are expected to be interested in this IC activity and will be invited to participate.

Electric Utilities
Telecomm Companies
Cable Companies
State Regulators
Communications Equipment Manufacturers
Wireless Network Engineering & Construction Companies
Wireline Engineering & Construction Companies
Electric Utility and Telecom Industry Professional Associations
Standards Development Organizations

# **8.2 Expected Number of Participants**

Indicate the approximate number of entities (if entity-based) or individuals (if individual-based) expected to be actively involved in this activity.

20-30 entities

# 8.3 Initial Participants

Provide a few the entities or individuals that will be participating from the outset. It is recommended there be at least three initial participants for an entity-based activity, or five initial participants (each with a different affiliation) for an individual-based activity.





Use the following table for an entity-based activity:

<b>Entity Name</b>	Primary Contact Name	Additional Representatives
Nelson Research	Nelson Bingel	
TRC	Brenda Sears	
OSHA	Brent McKinney	
BICSI	Bob Hertling	
Thayer Power &	John Werner	
Communication		
Georgia Power Company	Darryll Wilson	
OPCS	Larry Slavin	
Crown Castle	Alex Fiorani	
WA State Dept of Labor	Rod Julian	
& Industry		
Bunya Telecom	Trevor Bowmer	
Consulting		
Osmose	Ron Bilodeau	

# 8.4 Activity Supporter/Partner

Indicate whether an IEEE committee (including IEEE Societies and Technical Councils), other than the Oversight Committee, has agreed to participate or support this activity. Support may include, but is not limited to, financial support, marketing support and other ways to help the Activity complete its deliverables.

Has an IEEE Committee, other than the Oversight Committee, agreed to support this activity? No

If yes, indicate the IEEE committee's name and its chair's contact information.

IEEE Committee Name: Committee Name

Chair's Name: Full Name

Chair's Email Address: who@where

Please indicate if you are including a letter of support from the IEEE Committee.

