Facilities Joint Use Program
Industry Connections Activity Initiation Document (ICAID)

Version: 2.0, 10 February 2020

IC18-001-02 Approved by the IEEE SASB 5 March 2020

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: Nelson Bingel  
Email Address: nbingel@nelsonresearch.net  
Employer: Nelson Research, LLC  
Affiliation: Chair NESC Main Committee

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 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), 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.

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 facilities are covered in the 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).

There is a small non-profit organization doing similar work in Oregon (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.

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


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.

3.5 How will the activity benefit the IEEE?

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.

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: 03/2022

IC activities are chartered for two years at a time. Activities are eligible for extension upon request and review by ICCom and the IEEE-SA Standards Board. 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 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 may serve as a framework for a new standard
  - “Establishing Consistency in Joint Use Applications with 5G Wireless Facilities”
  - Published Fall 2019
- Work has started on additional white papers to provide a deeper dive into specific topics touched upon in the first paper
- A database or similar data repository is envisioned to provide a comprehensive source of data on existing infrastructure, types, attachments, etc.

Future work may focus on certification of workers for increased safety/reliability, based on proximity to active conductors.
Exploration on the formation of an industry alliance, in accordance with the expectations of the IC participants.

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.

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

6. 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 have 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.

7. Management and Procedures

7.1 Activity Oversight Committee

Indicate whether an IEEE committee of some form (e.g., a Standards committee) has agreed to oversee this activity and its procedures.

Has an IEEE committee agreed to oversee this activity?: **No**

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

SIEEE 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.

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.
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, (b) Standards Committee policies and procedures accepted by the IEEE-SA Standards Board, or (c) 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 (b) or (c) is chosen, then ICCom approval of the use of the P&P is required.

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

8. 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

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.

30-40 entities

8.3 Initial Participants
Provide a number of 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:

<table>
<thead>
<tr>
<th>Entity</th>
<th>Primary Contact</th>
<th>Additional Representatives</th>
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<tbody>
<tr>
<td>AT&amp;T</td>
<td>Kyle Hitchcock</td>
<td></td>
</tr>
<tr>
<td>Osmose</td>
<td>Nelson Bingel</td>
<td></td>
</tr>
<tr>
<td>Company</td>
<td>Name</td>
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<tr>
<td>Oregon PUC</td>
<td>Mark Rettmann</td>
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<tr>
<td>Spida Software</td>
<td>Brett Willitt</td>
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<tr>
<td>Oklahoma Gas and Electric</td>
<td>Shane King</td>
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<tr>
<td>TRC</td>
<td>Brenda Sears</td>
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<td>PA PUC</td>
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<tr>
<td>City Utilities of Springfield</td>
<td>Brent McKinney</td>
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<td>BICSI</td>
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<td>Thayer Power &amp; Communication</td>
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<td>National Grid</td>
<td>Derek LeClair</td>
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<td>DTE Energy</td>
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<td>South Central Power Co.</td>
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<td>WA State Dept of Labor &amp; Industry</td>
<td>Rod Julian</td>
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<td>McMinnville Water &amp; Light</td>
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<td>NC Utilities Commission</td>
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<td>Ericsson</td>
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