**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title |  | |
| Date Submitted | [20 Jan, 2010] | |
| Source | [] [] [Chicago, IL] | Voice: [+1.847.960.3715] Fax: [+1.630.524.9054] E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 Interim Meeting in LA, California] | |
| Abstract | [IEEE 802.15 Steering Committee Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Interim Meeting – Session #64**

**Hyatt Regency, LA, California**

**18 - 21 Jan 2010**

**Wednesday 20 Jan, 2010**

**11:02** 802.15 WNG SC chaired by P Kinney brought to order

Presentation: “Low Energy Critical Infrastructure Monitoring” ([15-10-0053-00](https://mentor.ieee.org/802.15/dcn/10/15-10-0053-00-wng0-low-energy-critical-iinfrastructure-monitoring.pptx)) by Joaquin Silva (OnRamp), MikeCalcagno **(**SempraEnergy**),** Johan Becker (Amplex Inc), David Howard (OnRamp)

Discussion:

* 15.4g is looking to include these types of applications
  + 15.4g effort seems to be drifting away from the requirements of these systems
  + To avoid power infrastructure is to increase sensitivity via low data rates, etc
* 15.4g has profiles on these applications
  + Many application sites have no networks to carry the necessary information
* Who would pay for this system?
  + It’s put into the rates as a cost of doing business
* Demand control requirements of this system?
  + Not requiring this system to provide control
* PLC meeting requirements?
  + Will not work in all environments
* Conflict in requirements between long battery life and long ranges
  + Key is to have enough link margin for each device (e.g. lower data rates)
* Wouldn’t a 15.4g network bridge provide communication?
  + Not practical in many sites
* Considered existing wireless standards to solve problems? 4g mesh?
  + Have not found devices to get out of underground sites without top surface antennas
* Low power WiFi to fulfill these needs? External antenna?
  + Focus is not creating new standard but use needs a standards-based device to perform necessary performance
* Cost justified for a new standard?
  + IG to look into this
* Node densities for these applications?
  + Low cost infrastructure need prevents routing
* Link margins for difficult environments are provided by higher transmit power and low data rates

* Do you wish to request the 802.15 WG to form an interest group at the next WG meeting for LECIM?
  + Reply - Yes
  + Chair asked for number of individuals interested in participating in this IG? Chair counted 26
  + Comment from chair that the chair would forward this request to the WG at the plenary on Thursday

**12:05** Meeting adjourned