

**From:** smtprelay  
**Sent:** Thursday, October 18, 2018 11:10 AM  
**To:** Statements  
**Subject:** Statement of Position Submitted by Kelly McMullen

## Statement of Position Submitted

### Name

Kelly McMullen

### Email

kellymcm@mcmullendesign.com

### Docket

E-2 Sub 834

### Message

Dear NCUC Chairman Finley, NCUC Board of Commissioners and NCUC Public Staff: I am writing again to urge the NCUC to require Duke Energy companies to provide an analog meter option to citizens on behalf of the public health. Please re-read the following comments by Elizabeth Foley closely (as well as the comments submitted by Gloria Shen): Dear NCUC Chairman Finley, NCUC Board of Commissioners and NCUC Public Staff: I am writing to urge NCUC to take the immediate step of requiring Duke Energy Progress (DEP) to have an analog-allowed opt out for its North Carolina customers. Further, I respectfully request that NCUC seriously consider taking the bold and responsible action of pausing or suspending Duke Energy's rollout of further smart meters until longitudinal study of their long-term cumulative effects can be conducted, given recent NIH-funded scientific research clearly linking RF radiation exposure to brain and heart cancer in rats. 1. Analog-Allowed Opt Out: Short of a full state-wide moratorium on smart meters due to their serious health effects, please allow individual North Carolina citizens to protect themselves by obtaining a safe analog meter for the purpose of opting out. Currently there are fifteen states in the U.S. that already offer opt-out programs with analog options. Here in North Carolina, most of the over 100 submissions to the NCUC docket over the past few weeks specifically requested that analog meters be made available for opt-out customers. Unlike analog meters, radio-off digital meters introduce damaging high frequency voltage transients onto the rest of the home's wiring. The radio-off meters have the same switched-mode power supply (SMPS) contained in radio-on smart meters which generate this type of electrical pollution or "dirty electricity." Unlike other consumer electronics that create dirty electricity, smart meters' SMPS emit the same spectrum of harmonics creating a dangerous large-scale coherence through streets and neighborhoods. The vast scale of such a comprehensive blanket of 24/7 electrical pollution in residential homes is unprecedented in human history. This is completely setting aside the saturation of wireless from the smart meters of neighbors who have radio-on smart meters. Also unlike other household electronics, the resulting electrical pollution is a forced prerequisite to having basic electrical service rather than a choice. The digital meter with its ceaseless dirty electricity can never be turned off by the household. The associated data collection is nonconsensual, and cannot be declined short of termination of service. Research shows that high frequency voltage transients interact with a wide range of physiological

processes, causing health effects ranging from tinnitus and sleep disturbances to heart arrhythmia and increased cancer risk. In addition, radio-off meters are an invasion of privacy because, like the radio-on meters, they still collect excessive detailed private household data without consent. The radio-off meter is also vulnerable to security breaches and must be replaced much more often than the analog meters which have a long history of safety, accuracy, and reliability. For all of these reasons, any opt out involving a radio-off digital meter is not a true opt out and is misleading to the public. Please allow a \*true\* opt out for DEP customers by requiring that DEP allow analog opt out meters. 2. Pause or Suspend DEP Smart Meter Rollout Pending Longitudinal Study Duke Energy's rollout of wireless smart meters should not have occurred prior to longitudinal research into the cumulative health effects of exposing residential homes to round-the-clock pulsed wireless emissions in combination with the excessive dirty electricity created by smart meters. Duke Energy and NCUC are both aware of the statement submitted to the NCUC from the director of the Institute for Health and the Environment at the University of Albany in New York, co-signed by four other scientists and doctors, stating that cancer is the greatest risk of radio frequency (RF) wave exposure and that nearer-term symptoms include fatigue and memory problems. Duke Energy has repeatedly been informed of the latest research from the National Toxicology Program clearly linking RF radiation to cancer, and the fact that in March 2018 a national panel of expert peer reviewers increased the level of confidence in the findings of a link between RF radiation exposure and brain and heart tumors in rats. Why is Duke Energy being allowed to move forward with smart meter rollout at all in the face of this research? Why should DEP install even one more smart meter in North Carolina when cancer is now squarely in the conversation with strong science behind it? The NCUC has rightly noted that the FCC guidelines on RF radiation exposure date back to 1996. This means they are shockingly outdated. It is disturbing that Duke Energy cites FCC guidelines from 1996 but ignores science from 2018. Wireless RF radiation -- which includes that emitted by smart meters -- has already been classified in 2011 as a possible carcinogen by the World Health Organization's International Agency for Research on Cancer (IARC) based on over 100 scientific studies. A growing number of scientists and doctors are now calling for the IARC to upgrade the classification to "carcinogenic" or "probably carcinogenic" to humans. NCUC, please require DEP to have an analog-allowed opt out for its customers, i.e., an opt out that allows customers to have analog or mechanical meters rather than solely permitting the dangerous radio-off digital smart meters. Following that action, please protect the health and privacy of North Carolinians by taking steps to suspend DEP's rollout of further smart meters pending further study into their long-term cumulative health effects. Sincerely, Elizabeth Foley Durham, NC Thank you, Kelly McMullen Durham, NC

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**Threatt, Linnetta**

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**From:** smtprelay  
**Sent:** Thursday, October 18, 2018 9:58 AM  
**To:** Statements  
**Subject:** Statement of Position Submitted by Ben Brackett

## Statement of Position Submitted

### Name

Ben Brackett

### Email

bbrackett2@carolina.rr.com

### Docket

E-2 Sub 834

### Message

Smart meters gather information as well as post a health hazard. Analog is the only way for citizens to be safe.

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Oct 18 2018