

**Subject:** RE: Peer Review of Agency Final Draft Radiometer Guidance

**From:** Clive Lee <Clive.Lee@kippzonen.com>

**Date:** 7/22/2011 9:13 AM

**To:** Herman Wong <Wong.Herman@epamail.epa.gov>, "kdurkee@aqmd.gov" <kdurkee@aqmd.gov>, "mgilroy@mbuapcd.org" <mgilroy@mbuapcd.org>, "ware@radiometrics.com" <ware@radiometrics.com>, Victor Cassella <Victor.Cassella@kippzonen.com>, "ken@minisodar.com" <ken@minisodar.com>, "dbgemmill@verizon.com" <dbgemmill@verizon.com>, "wilker@co.clark.nv.us" <wilker@co.clark.nv.us>, "jdennison@slrconsulting.com" <jdennison@slrconsulting.com>, "phils@pscleanair.org" <phils@pscleanair.org>, "clint@sonomatech.com" <clint@sonomatech.com>

**CC:** Robert Elleman <Elleman.Robert@epamail.epa.gov>, Dennisk Mikel <Mikel.Dennisk@epamail.epa.gov>, Bob Baxter <bbaxter@tbsys.com>

Hello Herman

I think that Rob has made an excellent guidance document for this measurement technology.

The emphasis on what is 'reasonable' for the specific application, rather than hard and fast specifications, is a difficult concept to get across in EPA and audit terms. However, I think that this has been explained well.

I agree with Stick's comments and do not have anything further to add.  
Victor has forwarded the document to ATTEX for their comments.

**From:** Herman Wong [mailto:Wong.Herman@epamail.epa.gov]

**Sent:** Monday 11 July 2011 05:53 PM

**To:** kdurkee@aqmd.gov; mgilroy@mbuapcd.org; ware@radiometrics.com; Clive Lee; Victor Cassella; ken@minisodar.com; dbgemmill@verizon.com; wilker@co.clark.nv.us; jdennison@slrconsulting.com; phils@pscleanair.org; clint@sonomatech.com

**Cc:** Robert Elleman; Dennisk Mikel; Bob Baxter

**Subject:** Peer Review of Agency Final Draft Radiometer Guidance

**Importance:** High

Dear Peer Reviewers:

The U.S. Environmental Protection Agency Region 10 with technical assistance from Technical & Business Systems Inc. (TBS) has crafted a final draft quality assurance guidance document for radiometers. While the document focused on a Kipp & Zonen MTP5P temperature profiler specifically designed for an Arctic environment, it has been written such that it has wider radiometer instrument application.

The initial draft document was applied in May, 2010 to an upper air temperature measurement program located in the North Slope of Alaska. Based on our observations of the Kipp & Zonen MTP5P temperature profiler operation and performance, and the independent auditor comments and results, changes were made to improve the document over the initial draft. Additional changes were made after several more audits, measurement comparisons between the profiler and the radiosondes, and discussions with the project proponent and vendor resulting in a final draft document.

Early this year, TBS provided Region 10 with your name as a volunteer peer reviewer of the final draft *Quality Assurance Guidance for the Collection of Meteorological Data Using Passive Radiometers* version 040711. As a result, you are receiving this email to assist Region 10 in finalizing the document by providing us your technical comments. Once all the appropriate comments had been incorporated, we will forward the document to the Office of Air Quality Planning and Standards. Region 10 anticipates that this document will be referenced and/or incorporated into existing Agency meteorological monitoring handbooks and quality assurance guidance documents as a change and will be placed in the public domain. Consequently, your review and constructive comments are very important to Agency and

potential users of the document.

Attached to this email, is a PDF of the final draft document. If you have any comments after your review of this document, Region 10 requests that they be provided to us not later than Monday, August 15, 2011. We will review your comments and will make changes as necessary. Please forward your comments by email to Mr. Robert Elleman at [elleman.rob@epa.gov](mailto:elleman.rob@epa.gov), Mr. Robert Baxter at [bbaxter@tbsys.com](mailto:bbaxter@tbsys.com), and me at [wong.herman@epa.gov](mailto:wong.herman@epa.gov).

Thank you for your participation.

/s/ ROBERT ELLEMAN, Ph.D.  
Regional Meteorologist

/s/ HERMAN WONG  
Atmospheric Scientist, Regional Modeling Contact

With best regards,



**Clive Lee**  
Business Manager Meteorology & Atmospheric Science

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