## **SAIP 2016 Annual Conference Proceedings**

**Reply to referees: SAIP ID367** 

"ESKOM, Irradiance and Sunny Skies - the physics of solar irradiance in South African conditions",

**Author: H Winkler** 

## Responses to Referee 1

Referee comment	Response to comment
This paper is good for noting that the AM1.5	Actually the higher power achieved is
Global Spectrum is more suitable for the North	significantly larger (34% for De Aar – now
American Landscape. An alternative for the	included in section 4.5). This can also be seen
western parts of South Africa is given. It is good	when comparing the middle (De Aar AM 1.209)
to know but the effect of this is that PV modules	and bottom (standard US AM 1.5) curves in Fig 1.
operate at a slightly higher power than the rated	A paragraph highlighting this result is now
power because if this lower air mass. This higher	included in Section 4.5. Some sentences have
power is not quantified and may be a trivial gain	been shortened elsewhere to keep the article
and at this point of the paper has not been	length at 6 pages.
proven.	
The word "Eskom" should be removed from the	Title changed to: "How local conditions affect
title as it has no bearing on the paper.	solar irradiance and photovoltaic module
	performance in South Africa"

## Responses to Referee 2

Referee 2 accepted the paper as is.

## Responses to Referee 3

Referee comment	Response to comment
The title should also be changed and not include	Title changed to: "How local conditions affect
Eskom.	solar irradiance and photovoltaic module
	performance in South Africa"
A comprehensive conclusion would add value to	A conclusion has been included. The scope for
the manuscript and should be added.	this was however limited by the 6-page
	maximum allowed for these proceedings. The
	last paragraph in Section 4 had previously been
	written so as to conclude the paper, and this has
	therefore been transferred to Section 5. To this
	was added a summary of findings with regards to
	the applicability of the AM1.5 spectrum
Abstract, line 3: used to estimate	Corrected
page 3, line 6 and elsewhere: photovoltaic (PV)	Changed "solar panel" or "panel" to "PV
modules, not photovoltaic solar panels (this	module" or "module" throughout
applies throughout the manuscript). The word	
panel or solar panel must be replaced with	
module or PV module throughout the paper.	