



DIGSILENT GridCode:

Model Validation according to Australian GridCode

DIGSILENT Ibérica
Madrid, 07 June 2013

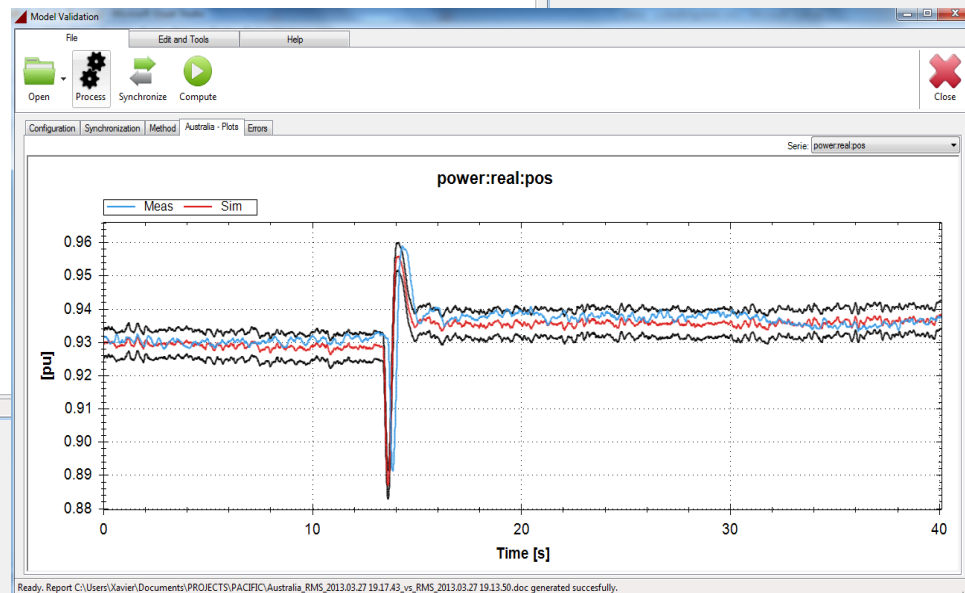
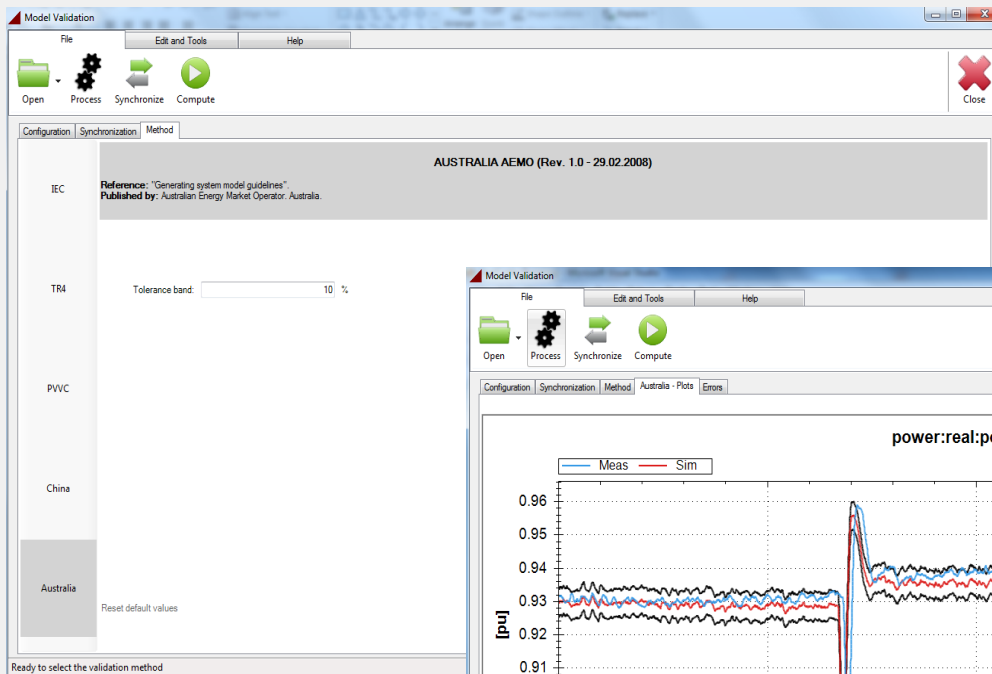


Model Validation

DIgSILENT GridCode v2.1 – Model Validation

New “Australian Method”

Comparison between Measurements and Simulation Results

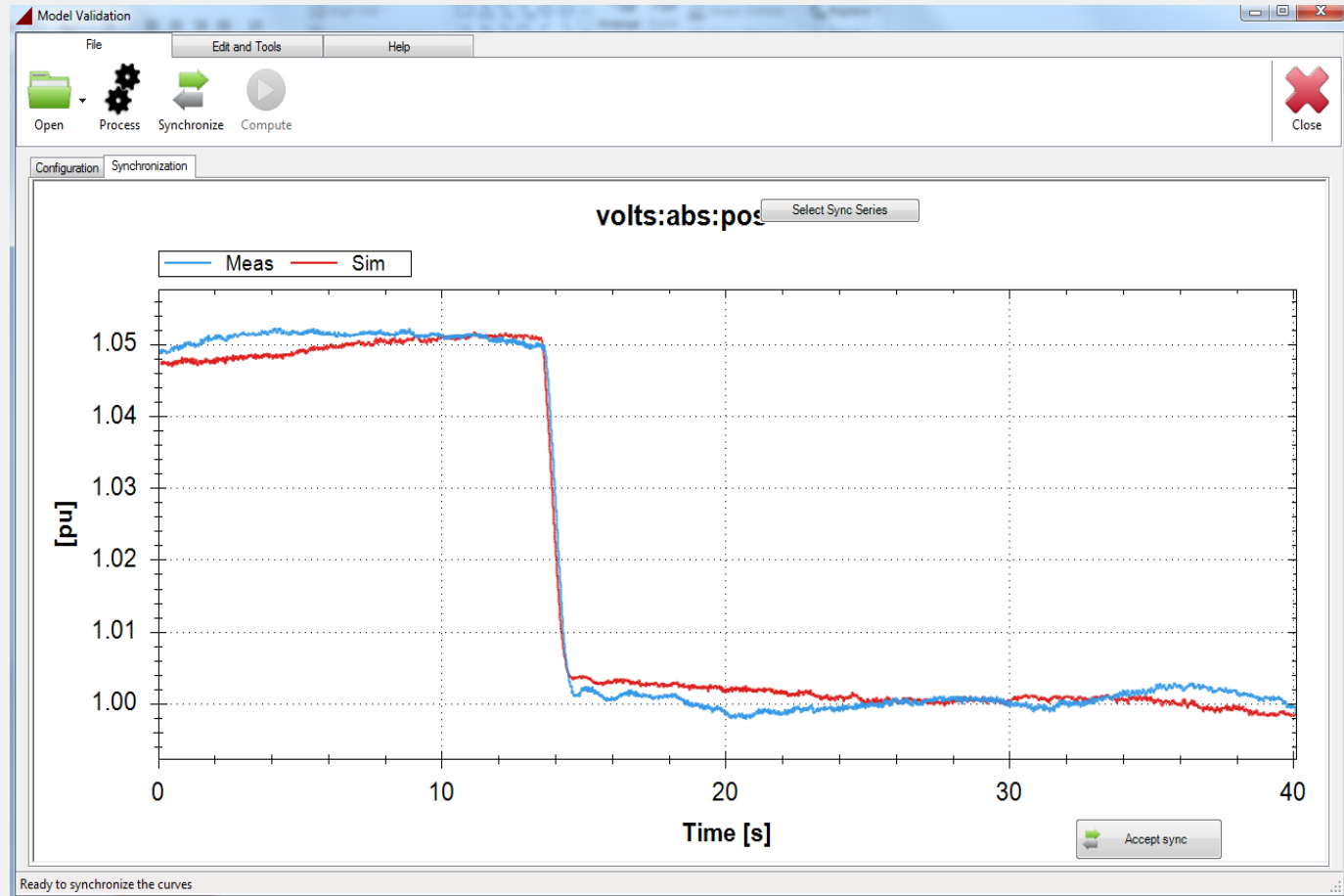




Model Validation

DIgSILENT GridCode v2.1 – Model Validation

Signals Synchronization for accurate comparison



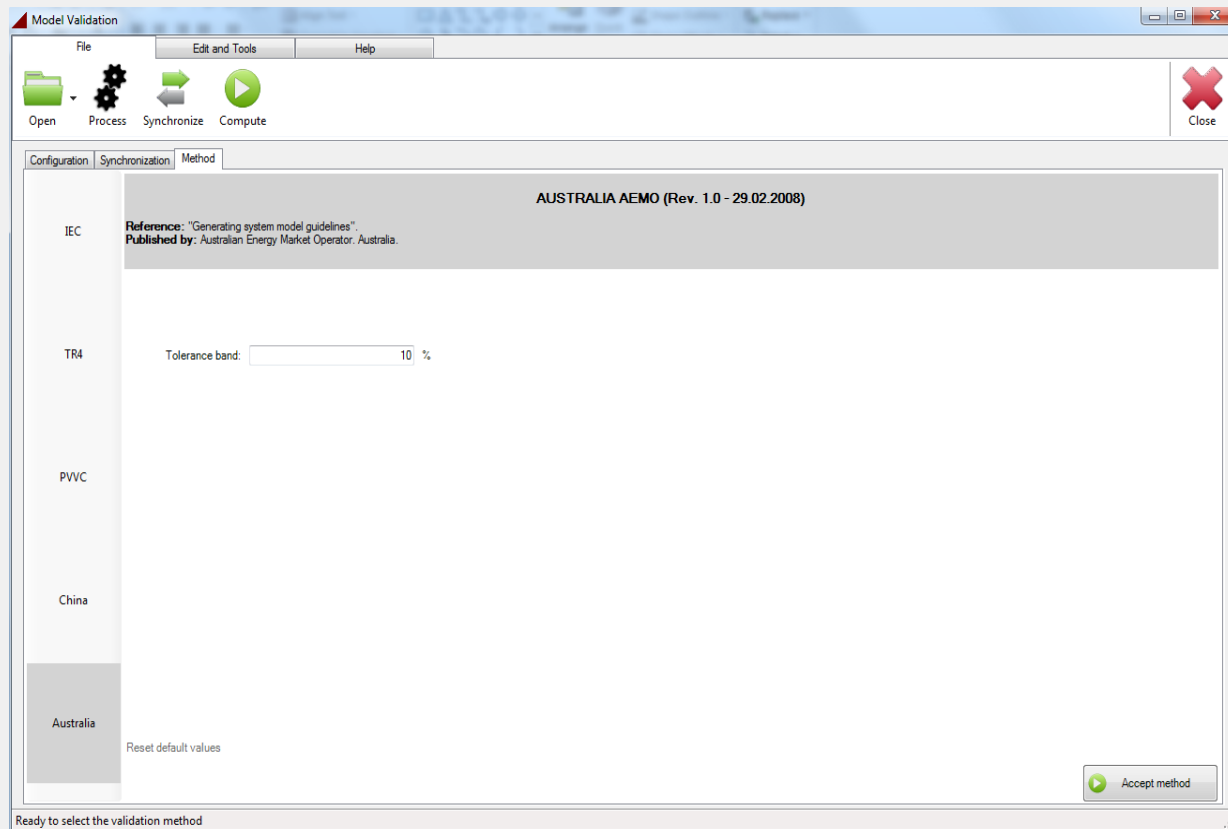


Model Validation

DIgSILENT GridCode v2.1 – Model Validation

New “Australian Method”

Definition of tolerance band = maximum error





Model Validation

DIgSILENT GridCode v2.1 – Model Validation

Results





Model Validation

DIgSILENT GridCode v2.1 – Model Validation

Results – Error calculations

Serie	Error(Avg) [pu]	Error(Max) [pu]	Points outside tolerance [%]
amps excitation dc	0.270	6.827	2.730
amps.rms.A	0.007	0.068	40.631
amps.rms.B	0.007	0.068	40.643
amps.rms.C	0.007	0.068	42.476
power.reactive.pos	0.029	0.136	23.912
power.real.pos	0.002	0.048	6.196
volts.abs.pos	0.002	0.014	1.858
volts.excitation.dc	0.001	0.119	49.183
volts.frequency.B	0.001	0.002	100.000
volts.frequency.C	0.001	0.002	99.938
volts.rms.A	0.002	0.014	1.858
volts.rms.avg	0.002	0.014	1.858
volts.rms.B	0.002	0.014	1.858
volts.rms.C	0.002	0.014	1.895
volts.rms.max	0.002	0.014	1.895
volts.rms.min	0.002	0.014	1.858

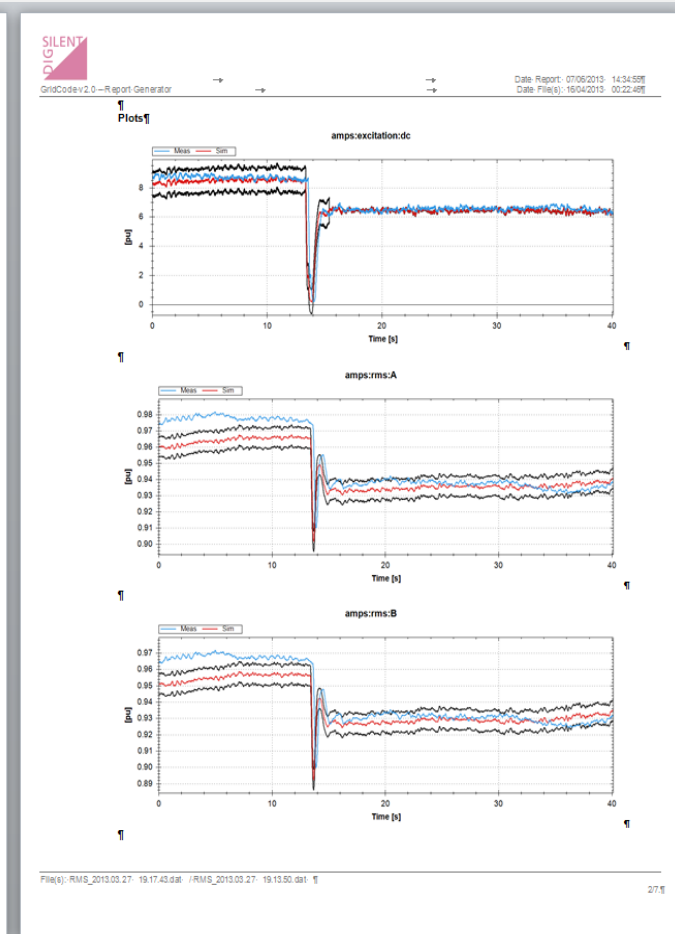
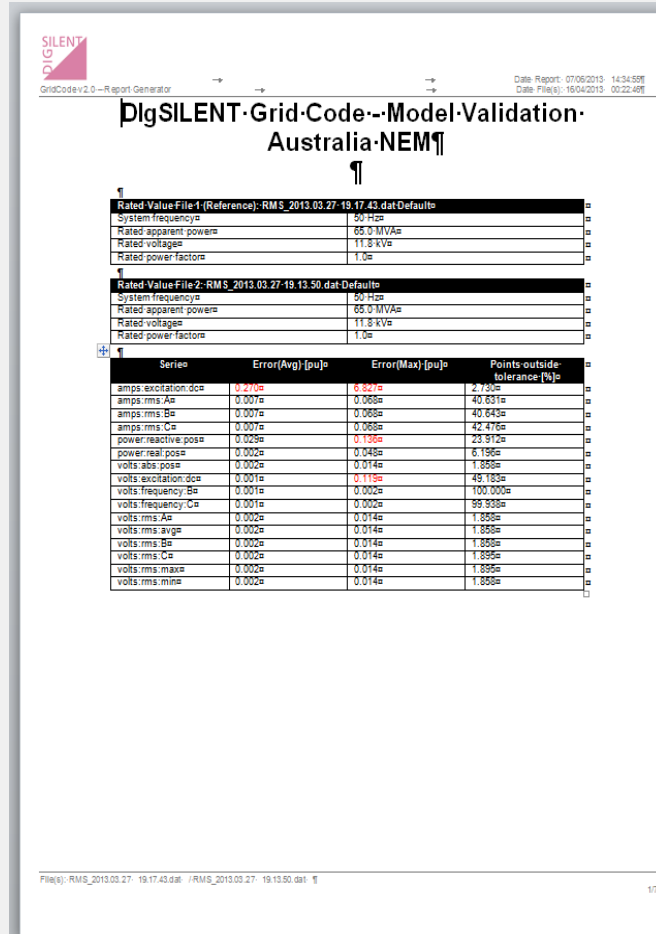
Ready: Report C:\Users\Xavier\Documents\PROJECTS\PACIFIC\Australia_RMS_2013.03.27 19.17.43_vs_RMS_2013.03.27 19.13.50.doc generated successfully.



Model Validation / Reporting

REPORTING

Results are reported in Word format.





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