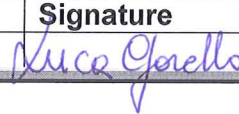
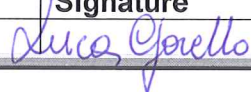


## SINGLE TEST RECORD FORM

<b>Test No: 09_1</b>	<b>Profile edition No: 2</b>	<b>Tool: CRESO v6.3.0</b>	<b>Score: 2</b>
<b>Test files:</b>			
<b>Import:</b>		<b>Export</b>	
ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml ENTSO-E16nodes_part_BE_EQ.xml ENTSO-E16nodes_part_BE_SV.xml ENTSO-E16nodes_part_BE_TP.xml ENTSO-E16nodes_part_NL_EQ.xml ENTSO-E16nodes_part_NL_SV.xml ENTSO-E16nodes_part_NL_TP.xml			
<b>Comments/Results/Issues:</b>			
<p>The import and load flow have been executed correctly          The results of power flow are reported in the screenshots</p> <p>The topology changes made are the same of test 04:</p> <ul style="list-style-type: none"> <li>• Change status of Breaker Tras49C3 between "SBARRA 0B" and "SBARRA E4" from Close to Open</li> <li>• Change status of Breaker Tras 2436 between "SBARRA 6F" and "SBARRA 28" from Open to Close</li> </ul> <p>The test has been completed partially because CRESO had some problems to export the 2<sup>nd</sup> edition of the profile.</p>			
<b>Supplementary files:</b>			
Creso_schema_NL.pdf Creso_schema_BE.pdf Creso_data_summary_NL.pdf Creso_data_summary_BE.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
13.07.2011	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Roberto Zacheo	Luca Gorello	

## SINGLE TEST RECORD FORM

<b>Test No: 10_1</b>	<b>Profile edition No: 2</b>	<b>Tool: CRESO v6.3.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import:</b>		<b>Export</b>	
ENTISOE_2_S1_OD_13J16h_ENTISOE_16_BE_EQ.xml ENTISOE_2_S1_OD_13J16h_ENTISOE_16_BE_TP.xml ENTISOE_2_S1_OD_13J16h_ENTISOE_16_NL_EQ.xml ENTISOE_2_S1_OD_13J16h_ENTISO- E_Boundary_Set_28_June_2011_2ndEdition_EU_EQ.xml ENTISOE_2_S1_OD_13J16h_ENTISO- E_Boundary_Set_28_June_2011_2ndEdition_EU_TP.xml ENTISOE_16_NL_OD_13J15h_SV.xml ENTISOE_16_NL_OD_13J15h_TP.xml			
<b>Comments/Results/Issues:</b>			
<p>The import of the network produced in the test No. 9 by PSS-ODMS has been executed correctly</p> <p>The power flow has been executed correctly. The comparison with the results of power flow performed by PSS-ODMS is in supplementary files.</p>			
<b>Supplementary files:</b>			
Creso_schema_BE.pdf Creso_data_summary_BE.pdf Creso_schema_NL.pdf Creso_data_summary_NL.pdf ODMS_Loadflow_Diagram_Solution2.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
14.07.2011	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Roberto Zacheo	Luca Gorello	

## TOOL SUMMARY FORM (PER TOOL)

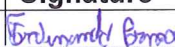
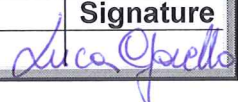
[illegible]



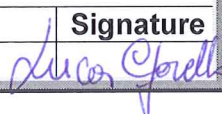
## SINGLE TEST RECORD FORM

<b>Test No:</b> 01_1	<b>Profile edition No:</b> 1	<b>Tool:</b> SICRE v6.33.1	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO-E16nodes_part_NL_v11July_EQ.xml ENTSO-E16nodes_part_NL_v11July_TP.xml ENTSO-E16nodes_part_NL_v11July_SV.xml ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml			
<b>Comments/Results/Issues:</b>			
<p>The following items were checked:</p> <ul style="list-style-type: none"> <li>• Load data of area NL</li> <li>• Voltage on the electrical nodes</li> <li>• Generation data of area NL</li> <li>• Power flows data between area NL</li> </ul> <p>The power flow gave the same results as from the original data of the model.          The input data for Sicre (network description and state variables) was translated by Creso because they shared the same proprietary data format.</p>			
<b>Supplementary files:</b>			
Test1_1_Active_Power.pdf Test1_1_Reactive_Power.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
13.07.2011	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Ferdinando Parma	Luca Gorello	<i>Luca Gorello</i>

## SINGLE TEST RECORD FORM

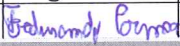
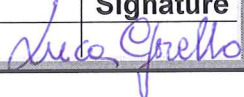
<b>Test No:</b> 01_2	<b>Profile edition No:</b> 1	<b>Tool:</b> SICRE v6.33.1	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO-E16nodes_part_BE_v11July_EQ.xml ENTSO-E16nodes_part_BE_v11July_TP.xml ENTSO-E16nodes_part_BE_v11July_SV.xml ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml			
<b>Comments/Results/Issues:</b>			
<p>The following items were checked:</p> <ul style="list-style-type: none"> <li>• Load data of area BE</li> <li>• Voltage on the electrical nodes</li> <li>• Generation data of area BE</li> <li>• Power flows data between area BE</li> </ul> <p>The power flow gave the same results as from the original data of the model.          The input data for Sicre (network description and state variables) was translated by Creso because they shared the same proprietary data format.</p>			
<b>Supplementary files:</b>			
Test1_2_Active_Power.pdf Test1_2_Reactive_Power.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
13.07.2011	<b>Name</b>	<b>Signature</b>	<b>Signature</b>
	Ferdinando Parma		Luca Gorello 

## SINGLE TEST RECORD FORM

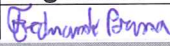
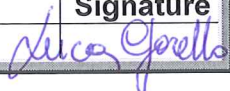
<b>Test No:</b> 03_1	<b>Profile edition No:</b> 1	<b>Tool:</b> SICRE v6.33.1	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO-E16_SP_12J11h_NL_EQ.xml ENTSO-E16_SP_12J11h_NL_SV.xml ENTSO-E16_SP_12J11h_NL_TP.xml ENTSO-E_Boundary_Set_4_May_2011_EU_EQ ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml		NA	
<b>Comments/Results/Issues:</b>			
<p>SICRE imported the three CIM files of NL MAS previously exported by SPIRA and calculated power flow. The comparison of power flow results between SICRE and SPIRA is inside engineering tolerance of 5%.</p> <p>You can see the comparison between the electrical quantities in the Amsterdam substation in the supplementary files.</p>			
<b>Supplementary files:</b>			
Test3_1_powerflowSICRE_Active_Power.pdf Test3_1_powerflowSICRE_Reactive_Power.pdf SPIRA_test_01_1_annex.docx			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
13.07.2011	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Ferdinando Parma	Luca Gorello	



## SINGLE TEST RECORD FORM

<b>Test No:</b> 06_1	<b>Profile edition No:</b> 1	<b>Tool:</b> SICRE v6.33.1	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO-E16nodes_part_NL_EQ.xml ENTSO-E16_SP_12J12h_NL_TP.xml ENTSO-E16_SP_12J12h_NL_SV.xml ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml		NA	
<b>Comments/Results/Issues:</b>			
<p>The following topology changes are made:</p> <ul style="list-style-type: none"> <li>• Change status of Breaker "Tras49C3" between "SBARRA 0B" and "SBARRA E4" from Close to Open</li> <li>• Change status of Breaker "Tras 2436" between "SBARRA 6F" and "SBARRA 28" from Open to Close</li> </ul> <p>The comparison of power flow results between the topology obtained by SPIRA in the test 04_1 and the topology obtained in this test is inside engineering tolerance of 5%. You can see the comparison between the electrical quantities in the Amsterdam substation in the supplementary files.</p>			
<b>Supplementary files:</b>			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
13.07.2011	<b>Name</b>	<b>Signature</b>	<b>Name</b>
	Ferdinando Parma		Luca Gorello
			

## SINGLE TEST RECORD FORM

<b>Test No: 07_1</b>	<b>Profile edition No: 1</b>	<b>Tool: SICRE v6.33.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import:</b>		<b>Export</b>	
ENTSO-E16nodes_part_NL_EQ.xml ENTSO-E16nodes_part_NL_TP.xml ENTSGE_1_BE_OD_11J13h_SV.xml ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml		NA	
<b>Comments/Results/Issues:</b>			
SICRE imported the SV file from PSS-ODMS and performed power flow calculation correctly. The difference between initial values of power flow of SV file and the results of power flow calculation are inside the tolerance (5%).			
<b>Supplementary files:</b>			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
13.07.2011	<b>Name</b>	<b>Signature</b>	<b>Signature</b>
	Roberto Zacheo		Luca Gorello 



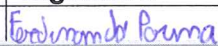
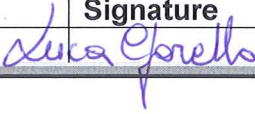
## SINGLE TEST RECORD FORM

<b>Test No:</b> 09_1	<b>Profile edition No:</b> 1	<b>Tool:</b> SICRE v6.33.1	<b>Score:</b> 2
<b>Test files:</b>			
<b>Import:</b>		<b>Export</b>	
ENTSO-E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO-E_Boundary_Set_4_May_2011_EU_TP.xml ENTSO-E16nodes_part_BE_EQ.xml ENTSO-E16nodes_part_BE_SV.xml ENTSO-E16nodes_part_BE_TP.xml ENTSO-E16nodes_part_NL_EQ.xml ENTSO-E16nodes_part_NL_SV.xml ENTSO-E16nodes_part_NL_TP.xml		NA	
<b>Comments/Results/Issues:</b>			
<p>The test has been partially completed.</p> <p>The import and load flow have been executed correctly</p> <p>SICRE can't export CIM files</p>			
<b>Supplementary files:</b>			
Test9_1_active_power_BE.pdf Test9_1_active_power_NL.pdf Test9_1_reactive_power_BE.pdf Test9_1_reactive_power_NL.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
13.07.2011	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Roberto Zacheo	Luca Gorello	

## TOOL SUMMARY FORM (PER TOOL)

[illegible]

## SINGLE TEST RECORD FORM

<b>Test No:</b> 01_1	<b>Profile edition No:</b> 2	<b>Tool:</b> SICRE v.6.33.1	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSOE_16_NL_EQ.xml ENTSOE_16_NL_SV.xml ENTSOE_16_NL_TP.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_EQ.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_TP.xml			
<b>Comments/Results/Issues:</b>			
SICRE imports all three files; the load flow is solved correctly  The result of power flow for Amsterdam substation is reported in the screenshot			
<b>Supplementary files:</b>			
TEST1_1_NL_Active_Power.pdf TEST1_1_NL_Reactive_Power.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
14.07.2011	<b>Name</b>	<b>Signature</b>	<b>Name</b> <b>Signature</b>
	Ferdinando Parma		Luca Gorello 



## SINGLE TEST RECORD FORM

<b>Test No: 01_2</b>	<b>Profile edition No: 2</b>	<b>Tool: SICRE v.6.33.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSOE_16_BE_EQ.xml ENTSOE_16_BE_SV.xml ENTSOE_16_BE_TP.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_EQ.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_TP.xml			
<b>Comments/Results/Issues:</b>			
SICRE imports all three files; the load flow is solved correctly  The result of power flow for Amsterdam substation is reported in the screenshot			
<b>Supplementary files:</b>			
TEST1_2_BE_Active_Power.pdf TEST1_2_BE_Reactive_Power.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
14.07.2011	<b>Name</b>	<b>Signature</b>	<b>Name</b> <b>Signature</b>
	Ferdinando Parma	<i>Ferdinando Parma</i>	Luca Gorello <i>Luca Gorello</i>

## SINGLE TEST RECORD FORM

<b>Test No: 03_1</b>	<b>Profile edition No: 2</b>	<b>Tool: SICRE v.6.33.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
tennet.eu_NL_EQ.xml tennet.eu_NL_TP.xml ENTSO-E_16_PF_12J11h_NL_SV.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_EQ.xml ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU_TP.xml			
<b>Comments/Results/Issues:</b>			
<p>SICRE imported the three CIM files of NL MAS previously exported by DIG Silent PF and calculated power flow. The comparison of power flow results between SICRE and DIG Silent PF is inside engineering tolerance of 5%.</p> <p>You can see the comparison between the electrical quantities in the Amsterdam substation in the supplementary files.</p>			
<b>Supplementary files:</b>			
Test3_1_NL_Active_Power.pdf Test3_1_NL_Reactive_Power.pdf DIG_Silent_PF_Idfresults_NL.png			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
14.07.2011	<b>Name</b>	<b>Signature</b>	<b>Name</b> <b>Signature</b>
	Ferdinando Parma	<i>Ferdinando Parma</i>	Luca Gorello <i>Luca Gorello</i>