

# Magnetism Reflectometer Motor Software Reset Procedure

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A U.S. Department of Energy Multilaboratory Project

SPALLATION NEUTRON SOURCE

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Magnetism Reflectometer  
Motor Software Reset Procedure

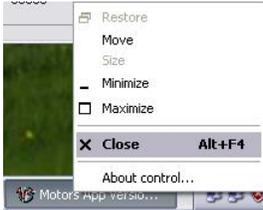
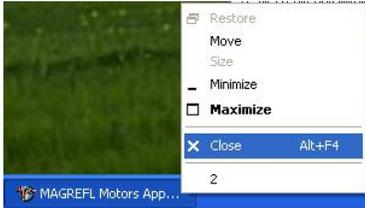
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## Magnetism Reflectometer Motor Reset Procedure

In the event that the applications required to drive the motor driven equipment on beam line 4A have stopped working and require resetting, the following procedure should be used.

Step Number	Procedure/Actions to be performed
1.	<b>Note the date and time</b> the problem occurs and make as <b>detailed</b> a record as possible describing the problem.
2.	<b>Email</b> the information recorded above to DAS Software Engineer <b>Gayle Greene</b> ( <a href="mailto:greenegc@ornl.gov">greenegc@ornl.gov</a> ).
3.	<p><b>Stop the Motors application on the DAS computer.</b> To do this, right click on the <b>Motors App</b> icon in the menu bar at the bottom of the display of the <b>DAS</b> computer and select <b>Close</b>.</p> 
4.	<p><b>Stop the Motors application on the Motor computer.</b> To do this, right click on the <b>Motors App</b> icon in the menu bar at the bottom of the display of the <b>Motors</b> computer and select <b>Close</b>.</p> 
5.	<p><b>Stop the Data Socket Server on the Motor computer.</b> To do this, click on <b>Server</b> tab in the <b>DataSocket Server</b> window on the <b>Motors</b> computer and select <b>Shutdown DataSocket Server</b>.</p> 
6.	<b>Wait sixty seconds.</b>

7.	<p><b>Start the Data Socket Server application on the Motor computer. To do this, double click on the DataSocket Server icon, located on the desktop of the Motors computer.</b></p> <div data-bbox="852 378 966 514" data-label="Image"> </div>								
8.	<p><b>Verify that the DataSocket Server is running. To do this, make sure that the DataSocket Server window is visible on the Motors computer.</b></p> <div data-bbox="755 661 1063 871" data-label="Image"> <table border="1" data-bbox="755 661 1063 871"> <thead> <tr> <th colspan="2">Statistics for "motors"</th> </tr> </thead> <tbody> <tr> <td>Processes Connected:</td> <td>2</td> </tr> <tr> <td>Packets Received:</td> <td>3636</td> </tr> <tr> <td>Packets Sent:</td> <td>6344</td> </tr> </tbody> </table> </div>	Statistics for "motors"		Processes Connected:	2	Packets Received:	3636	Packets Sent:	6344
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Processes Connected:	2								
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9.	<p><b>Start the Motors application on the Motors computer. To do this, double click on the Motors icon, located on the desktop of the Motors computer.</b></p> <div data-bbox="868 1060 950 1165" data-label="Image"> </div>								

**10. Verify that the Motors application is running on the Motors computer. To do this, make sure that the Motors App window is visible on the Motors computer.**

Motor Name	Fixed	Monitor Pos	Motor Pos	Encoder Pos	Instrument Pos	Instr Target	Move Status
LSR1			-0.251400	-0.251400	-0.251400		ATPOSITION
RSR1			0.248900	0.248900	0.248900		ATPOSITION
TSR1			10.008400	10.008400	10.008400		ATPOSITION
BSR1			-9.998800	-9.998900	-9.998900		ATPOSITION
LSR2			-0.248800	-0.248800	-0.248800		ATPOSITION
RSR2			0.250120	0.250100	0.250100		ATPOSITION
TSR2			10.013720	10.013700	10.013700		ATPOSITION
BSR2			-10.001...	-10.001600	-10.001600		ATPOSITION
LSR3			-0.249720	-0.249700	-0.249700		ATPOSITION
RSR3			0.249800	0.249800	0.249800		ATPOSITION
TSR3			9.998800	9.999000	9.999000		ATPOSITION
BSR3			-10.002...	-10.002700	-10.002700		ATPOSITION
shutter			-89.994...	-89.994455	-89.994455		ATPOSITION
PuLift			0.003100	0.003100	0.003100		ATPOSITION
PuAngle			-8.991095	-8.991000	-8.991000		OFFTARGET
PuTrans			-3.649680	-3.649700	-3.649700		ATPOSITION
RuLift			-217.99...	-217.999900	-217.999900		ATPOSITION
Spa#1Trans			0.000000	0.000000	0.000000		ATPOSITION
Spa#1Lift			-0.006958	-0.006900	-0.006900		ATPOSITION
TwoTheta			2.494626	2.503517	2.503517		ATPOSITION
Omega			0.194793	0.196056	0.196056		ATPOSITION
XSample			1.193417	1.201400	1.201400*	0.000000*	MOVING
Spa#2Lift			-89.274...	-89.274400	-89.274400		ATPOSITION
Spa#2ShLift			-100.00...	-100.002500	-100.002500		ATPOSITION
DetTrans			1199.70...	1199.706612	1199.706612		ATPOSITION

**11. Start the Motors application on the DAS computer. To do this, double click on the Motors icon, located on the desktop of the DAS computer.**



**12. Verify that the Motors application is running on the DAS computer. To do this, make sure that the Motors App window is visible on the DAS computer.**



All Motor control software should now be operating properly.