



July 30th, 2009

To: Market Participants

Re: Dispatch Tool Architectural Upgrade

As announced in the Participant News on June 11th, 2009 http://www.aeso.ca/downloads/Dispatch_Tool_Architectural_Upgrade.pdf the implementation date for the upgrade for the Dispatch Tool (DT) and the Automated Dispatch and Messaging System (ADaMS), has been deferred. The AESO is pleased to advise participants that this upgrade is scheduled for Q2, 2010.

The AESO is providing this communication to participants to ensure that participants are aware of the upcoming changes and the related impacts to participants with the implications of the upgrade.

OVERVIEW:

Upgrades to the DT and the ADaMS are currently in progress. These upgrades are focused on improving the reliability, stability, and sustainability of these systems, primarily through strengthening the underlying technical architecture.

DISPATCH INSTRUCTIONS:

The most significant change to ADaMS is an enhancement that will eliminate multiple dispatches. At times, generators are asked to dispatch up to accommodate one market, then down to resolve another market, with no net change to their generation. Dispatch instructions will soon support a new inter-market solution that will eliminate multiple dispatches in each of the markets to get to that final solution. The new ADaMS has merged all the individual dispatch and directive instructions from the current ADaMS system into one dispatch/directive instruction. The AESO feels that these changes address participant concerns of providing a clearer dispatch/directive instruction. The benefit to participants is that changes to dispatch levels in any market will be clearly identified. The AESO would like to stress that the content of dispatch instructions has not changed unless otherwise identified. Further information and screen shots are included in this notice.

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C:\Documents and Settings\spatricia\Local Settings\Temporary Internet
Files\OLK133\Participant Notice July Final1.doc

SYSTEM REQUIREMENTS:

All participants who are eligible to receive energy market dispatches or ancillary service dispatches must ensure their computer equipment will provide minimum requirements to effectively handle the dispatch message requirements. The supported platform for the upgraded ADaMS will be Windows XP and Internet Explorer 6.

ADaMS SCREEN CHANGES:

All screens in ADaMS have been updated to be clearer and more user friendly. In addition, the improved approach to dispatch instructions has resulted in significant changes to the participant view. A snapshot of the participant view is included in this notice.

IMPLICATIONS TO SCREEN SCRAPING PROCESSES

The AESO advised participants on March 19th, 2009, that upcoming changes to the layout of the ADaMS screen will impact any participant processes that are dependant on the format of these screens. The AESO is planning to provide participants with the HTML link once the ADaMS interface is final. The HTML link is intended to provide enough information for participants to revise dependant processes that are already established within your organization.

CC and DR ACCOUNTS:

Please note that dispatch information for all markets (energy, DDS, AS) for which an asset has been approved will be sent to all cc (carbon copy) and dr (dispatch rights) ADaMS accounts.

To ensure participants are aware and appropriately informed of the implications of the DT Architectural Upgrade to ADaMS, the AESO will provide additional information as required, including:

- o An updated ADaMS participant manual
- o A new version of the ADaMS request form
- o Frequently Asked Questions document

In addition, an information session for participants will be held a few weeks prior to the implementation of the new tool.

If you have any questions or concerns, please send an email to info@aeso.ca.

Sincerely,

Doug Hincks
Director, Operations Integration

Dispatch Instruction:

ADAMS																	Hide						
Accept	Reject	Ack	Dispatch Effective		Asset	AC	Energy	DDS	SR		SUP		TMR	RR	Asset Output		Notes	Instruction Time	Dispatch		Directive		
			Date	Time					Dispatch	Directive	Dispatch	Directive			Low	High			ON	OFF	ON	OFF	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	07/09	04:59	TST	1000	390	10	0	20	15	0	0	20	410	430	Directive	07/09 04:59 PM		SR		SR	

Summary of Instruction Header fields above:

Accept/Reject /Ack buttons	No change.
Dispatch Effective Date and Time	A label change from our current ADAMS system. Previously it was listed as Date and Time. The intent will remain the same as our current EAT definition. In addition the AESO also added the following enhancement: If the Dispatch effective time is in the future, the time cell background will be black and foreground is white.
AC	A new feature to display available capability of the asset (as reported in ETS).
Energy	The dispatch level for Energy. The dispatch instruction includes existing dispatch levels, as well as changes to dispatches. Any changes to dispatch level will be bold and cell background colored to reflect the service type.
DDS	The dispatch level for DDS. Any changes to dispatch level will be bold and cell background colored to reflect the dispatch of the service type.
SR Dispatch	The dispatch level for SR. Any changes to dispatch level will be bold and cell background colored to reflect the dispatch of the service type.
SR Directive	The directive level for SR. Any changes to directive level will be bold and cell background colored to reflect the directive.
SUP Dispatch	The dispatch level for SUP. Any changes to dispatch level will be bold and cell background colored to reflect the dispatch of the service type.
SUP Directive	The directive level for SUP. Any changes to directive level will be bold and cell background colored to reflect the directive.
TMR	The dispatch level for TMR. Any changes to dispatch level will be bold and cell background colored to reflect dispatch of the service type.
RR	The dispatch level for RR. Any changes to dispatch level will be bold and cell background colored to reflect the dispatch of the service type.
Asset Output Low	A new feature that includes the minimum output level that an asset should be at. The formula is: Max (TMR Dispatch, Energy Dispatch) + SR Directive + SUPG Directive + SUPL Directive. This is included primarily for reserve management.
Asset Output High	A new feature that includes the maximum output level that an asset could be at, including RR. The formula is: Max (TMR Dispatch, Energy Dispatch) + SR Directive + SUPG Directive + SUPL Directive + RR Dispatch. This is included primarily for reserve management.
Notes	The notes which are entered by the AESO System Controller.
Instruction Time:	The time the instruction is sent through the AESO's Dispatch Tool.
Dispatch On/Off	Summarize all services which are changing within the merged dispatch instruction. Levels greater than 0 (for On), and a level that is 0 (Off).
Directive On/Off	Summarize directive changes. Levels greater than 0 (for On), and a level that is 0 (Off). Should show all services which are changing in the dispatch and are dispatched to a level greater than 0 (for On), and a level that is 0 (Off).

Note: Participants will have the option to “hide” the Dispatch On/Off and Directive On/Off columns if they wish.

Dispatch Instruction Example 1:

The new ADAMS system has merged all the individual dispatch and directive instructions from the current ADAMS system into one dispatch/directive instruction. Note that each dispatch instruction will include the existing dispatch levels. Each change to the instruction will be **bold** and cell background changed.

Below is the new Participant View in ADaMS:

Participant View

CC Audible Silence DVN Variance Audible DVN Ramp Audible

ADAMS

Accept	Reject	Ack	Dispatch Effective		Asset	AC	Energy	DDS	SR		SUP		TMR	RR	Asset Output		Notes	Instruction Time	Dispatch		Directive	
			Date	Time					Dispatch	Directive	Dispatch	Directive			Low	High			ON	OFF	ON	OFF
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	07/21	12:48	ABC2	1000	41	0	54	0	0	0	0	0	41	41		07/21 12:49	SR			

Current Message

Ack	Message Type	Date	Time	Message	Time of Instruction

Dispatch History - Last 50 Dispatches 7

Status	Dispatch Effective		AC	Energy	DDS	SR		SUP		TMR	RR	Asset Output		Notes	Instruction Time	Dispatch		Directive	
	Date	Time				Dispatch	Directive	Dispatch	Directive			Low	High			ON	OFF	ON	OFF
Accepted	07/21	11:55	ABC1	1000	95	0	0	0	0	100	0	100	100		07/21 11:51	E			
Accepted	07/21	11:55	ABC2	1000	95	0	0	0	0	0	0	95	95		07/21 11:50	E			
Timeout	07/21	11:58	ABC1	1000	95	0	0	0	0	100	0	100	100		07/21 11:45	E			
Timeout	07/21	11:58	ABC2	1000	95	0	0	0	0	0	0	95	95		07/21 11:45	E			
Rejected	07/21	11:57	ABC2	1000	0	0	19	0	0	0	0	0	0		07/21 11:42	SR			
Accepted	07/21	11:39	ABC1	1000	0	0	0	0	0	100	0	100	100		07/21 11:40	E			
Accepted	07/21	11:37	ABC1	1000	95	0	0	0	0	100	0	100	100		07/21 11:37	TMR			
Accepted	07/21	11:31	ABC1	1000	95	0	0	0	0	0	0	95	95		07/21 11:31	E			

Message History

Message Type	Date	Time	Message	Time of Instruction
Alert	2009/07/21	11:34	This is a Test.	2009/07/21 11:34:03 -0600

The above dispatch is as follows (as displayed in the Dispatch History column):

- At 11:31, Asset ABC1 accepted an Energy Dispatch to 95MW. Asset Low/High is 95MW.
- At 11:37, Asset ABC1 accepted a 100MW TMR Dispatch. Energy remains unchanged. Asset Output Low/High is now 100MW.
- At 11:39, Asset ABC1 accepted a 0MW Dispatch (Energy off). Asset Output Low/High remains at 100MW.
- At 11:57, Asset ABC2 rejected a 19MW SR Dispatch.
- At 11:58, Assets ABC1 and ABC2 received Energy Dispatches to 95MW (timeout)
- At 11:55, Asset ABC2 accepted a 95MW Energy Dispatch. Asset Output Low/High is 95MW.
- At 11:55, Asset ABC1 accepted a 95MW Energy Dispatch. Asset Low/High is 100MW.
- At 12:48, Asset ABC2 received a new dispatch for 54MW SR. Energy level auto-reduced to 41MW. Asset Output Low/High is 41MW.

Dispatch Instruction Example 2:

ADAMS																			Hide				
Accept	Reject	Ack	Dispatch Effective		Asset	AC	Energy	DDS	SR		SUP		TMR	RR	Asset Output		Notes	Instruction Time	Dispatch		Directive		
			Date	Time					Dispatch	Directive	Dispatch	Directive			Low	High			ON	OFF	ON	OFF	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	07/09	04:59	TST	1000	390	10	0	20	15	0	0	20	410	430	Directive	07/09 04:59 PM		SR	SR		

Note that each dispatch instruction will include the existing dispatch levels. Each change to the instruction will be **bold** and cell background changed.

The above dispatch is as follows:

- Asset TST is currently dispatched for 390MW Energy, 10MW DDS, 15MW SUP and 20MW RR. This instruction has not changed, as the text is not bolded.
- SR is dispatched to 0MW, and an SR Directive to 20MW. This is the new part of the instruction, as it is bold.
- The Asset Output Low (410MW) includes the energy (390MW), and the 20MW SR Directive.
- The Asset Output High (430MW) includes the energy (390MW), SR Directive (20MW) and the RR (20MW)