# ADOPTING FURTHER AMENDMENTS TO THE WHOLESALE ELECTRICITY SPOT MARKET (WESM) RULES AND MARKET MANUAL ON MANAGEMENT OF MUST-RUN AND MUST-STOP UNITS

	WESM Rules (as amended per DOE DC2019-12-0017 dated 04 Dec 2019; for current market design)							
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale		
Over-riding Constraints	3.5.13.1	that are required to run as a result of the imposition or relaxation of constraints stated in the preceding paragraph, and the manner for compensating said units. (As amended by DOE DC NO.2006-01-0001 and further amended by DOE DC No. 2006-05-0006 dated 5 May 2006)  The System Operator shall advise the Market Operator of	consultation with the Market Operator and the Trading Participants, shall develop the criteria and procedures for dispatch of generating units that are required to run as a result of the imposition or relaxation of constraints stated in the preceding paragraph, and the manner for compensating said units. (As amended by DOE DC NO.2006-01-0001 and further amended by DOE DC NO. 2006-05-0006 dated 5 May 2006)  The System Operator shall advise the Market Operator of the actions it has taken in relation	subsequent DOE directives resulting from said ERC Order.				

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		WESM Rules (as amended	per DOE DC2019-12-0017 dated 0	4 Dec 2019; for current mark	et design)	
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
		relation to the foregoing,	for the proper settlement of			
		including but not limited to	affected <i>generating units</i> , and			
		information necessary for the	the Market Operator shall publish			
		proper settlement of affected	the said information no later than			
		generating units, and the	one (1) week from the relevant			
		Market Operator shall publish	trading day. For proper			
		the said information no later	settlement of <i>must-run units</i> and			
		than one (1) week from the	<del>must-stop units</del> , Trading			
		relevant <i>trading day</i> . For	Participants shall review the			
		proper settlement of must-run	information and notify the Market			
		units and must-stop units,	Operator of any discrepancies no			
		Trading Participants shall	later than two (2) weeks from the			
		review the information and	date of <i>publication</i> , otherwise the			
		notify the Market Operator of	information contained in the			
		any discrepancies no later than	report shall be deemed final for			
		two (2) weeks from the date of	use in the settlement of must-run			
		publication, otherwise the	<i>unit</i> s <del>and <i>must-stop units</i></del> . (As			
		information contained in the	amended by DOE DC NO.2015-			
		report shall be deemed final for	11-0016 dated 12 November			
		use in the settlement of must-	2015)			
		run units and must-stop units.	xxx			
		(As amended by DOE DC				

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	WESM Rules (as amended per DOE DC2019-12-0017 dated 04 Dec 2019; for current market design)							
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale		
		NO.2015-11-0016 dated 12 November 2015) xxx						
Settlement Amounts of Trading Participants	3.13.14.3	The Market Operator shall develop and implement, subject to approval by the ERC, the appropriate pricing and settlement methodology for compensation of trading participants whose generating units are designated as Must-Run Units or identified as Displaced Generators, and the corresponding recovery mechanism for the same.  (As amended by DOE DC No.2014-10-0021 dated 24 October 2014)	develop and implement, subject to approval by the ERC, the appropriate pricing and settlement methodology for compensation of trading participants whose generating units are designated as <i>Must-Run Units</i> or identified as Displaced Generators, and the corresponding recovery mechanism for the same.	No. 2016-159RC and				
Glossary		Displaced Generator. A generating unit identified and instructed by the System Operator in an Out of Merit Dispatch to reduce the	generating unit identified and instructed by the System Operator in an Out of Merit	Order dismissing ERC Case No. 2016-159RC and				

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		WESM Rules (as amended	per DOE DC2019-12-0017 dated 0	4 Dec 2019; for current marke	et design)	
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
		provision of energy specified in its Real Time Dispatch instruction exclusively caused by excess generation due to non-compliance of generators to dispatch instructions and use of reactive support reserve. (As amended by DOE DC No.2014-10-0021 dated 24 October 2014)	Time Dispatch instruction exclusively caused by excess generation due to non-compliance of generators to dispatch instructions and use of reactive support reserve. (As amended by DOE DC No.2014-	resulting from said ERC Order.		
Glossary		Must- Stop Unit (MSU). A generating unit identified and instructed by the <i>System Operator</i> to reduce the provision of energy due to its non compliance of the <i>Dispatch Schedule</i> to address or prevent possible threat to the System Security requirements of the Grid. (As amended by DOE DC No.2014-10-0021 dated 24 October 2014)	instructed by the System Operator to reduce the provision of energy due to its non compliance of the Dispatch Schedule to address or prevent possible threat to the System Security requirements of the Grid. (As amended by DOE DC No.2014-10-0021 dated 24	Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives resulting from said ERC		

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# ADOPTING FURTHER AMENDMENTS TO THE WHOLESALE ELECTRICITY SPOT MARKET (WESM) RULES AND MARKET MANUAL ON MANAGEMENT OF MUST-RUN AND MUST-STOP UNITS

		WESM Rules (as amended pe	r DOE DC2019-12-0017 dated 04	Dec 2019; for enhanced n	narket design)	
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
Dispatch Conformance Standards	3.8.5.6	In cases when a generating unit was identified as a Must-Stop Unit, the System Operator shall include such in the Dispatch Deviation Report.	was identified as a Must-Stop	<ul> <li>For consistency with ERC Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives resulting from said ERC Order.</li> <li>To ensure that the System Operator shall document non-compliant generating units in its regular Report. This is consistent with Section 14.4.2 of the Dispatch Protocol Issue 13.1.</li> </ul>		
Glossary		Must-Stop Unit (MSU). A generating unit identified and	Must-Stop Unit (MSU). A generating unit identified and	For consistency with ERC Order dismissing		

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# ADOPTING FURTHER AMENDMENTS TO THE WHOLESALE ELECTRICITY SPOT MARKET (WESM) RULES AND MARKET MANUAL ON MANAGEMENT OF MUST-RUN AND MUST-STOP UNITS

	WESM Rules (as amended per DOE DC2019-12-0017 dated 04 Dec 2019; for enhanced market design)							
Title	Clause	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale		
		instructed by the System	instructed by the System	ERC Case No. 2016-				
		Operator to reduce the	Operator to reduce the provision	159RC and subsequent				
		provision of energy due to its	of energy due to its non	DOE directives resulting				
		non compliance of the	compliance of the Dispatch	from said ERC Order.				
		Dispatch Schedule to address	Schedule to address or prevent					
		or prevent possible threat to	possible threat to the System					
		the System Security	Security requirements of the					
		requirements of the Grid.	Grid.					

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Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
Manual Title		Management of Must-Run	Management of Must-Run	For consistency with ERC		
		And Must-Stop Units	And Must-Stop Units	Order dismissing ERC Case		
		Issue 8.0	Issue <del>8.0</del> <b>9.0</b>	No. 2016-159RC and		
				subsequent DOE directives		
				resulting from said ERC		
				Order.		
ntroduction	1.0	In Section 6.6.1 of the WESM Rules,	In Section 6.6.1 of the WESM	For consistency with ERC		
		the System Operator was mandated	Rules, the System Operator was	Order dismissing ERC Case		
		to develop and periodically update the	mandated to develop and	No. 2016-159RC and		
		system security and reliability	periodically update the system	subsequent DOE directives		
		guidelines in consultation with WESM	security and reliability guidelines	resulting from said ERC		
		participants and the Market Operator.	in consultation with WESM	Order.		
		Part of this guideline is the	participants and the Market			
		introduction of Must-Run Units	Operator. Part of this guideline is			
		(MRUs) and nomination of MRUs by	the introduction of Must-Run			
		the System Operator whether	Units (MRUs) and nomination of			
		scheduled or on real-time basis to	MRUs by the System Operator			
		address the system security aspect of	whether scheduled or on real-			
		the grid. Likewise, to address system	time basis to address the system			
		security and reliability of the grid, the	security aspect of the grid.			
		use of Must Stop Units (MSU) was	Likewise, to address system			
		also introduced to tag certain	security and reliability of the grid,			
		generator/s for the non-conformity to	the use of Must Stop Units (MSU)			
		dispatch instructions as issued by the	was also introduced to tag certain			
		System Operator. This document	generator/s for the non-			

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		WESM Manual on N	Must-Run and Must-Stop Units Is:	sue 8.0 (for current market desi	gn)	
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
		discusses the criteria used in	conformity to dispatch			
		designating MRUs during scheduling	instructions as issued by the			
		and dispatch. It also discusses the	System Operator. This document			
		manner of settlement or	discusses the criteria used in			
		compensation of MRUs. xxx	designating MRUs during			
			scheduling and dispatch. It also			
			discusses the manner of			
			settlement or compensation of			
			MRUs. xxx			
Objective	2.3	This document is intended to –	This document is intended to –	For consistency with ERC		
				Order dismissing ERC Case		
		xxx	xxx	No. 2016-159RC and		
		Introduce the concept of Must-Stop	Introduce the concept of Must-	subsequent DOE directives		
		Units and Displaced Generators and	Stop Units and Displaced	resulting from said ERC		
		the procedures for their treatment and	Generators and the procedures	Order.		
		settlement.	for their treatment and			
			settlement.			
Definition of	4.4	Displaced Generator - a generating	Displaced Generator - a	For consistency with ERC		
Terms		unit identified and instructed by the	generating unit identified and	Order dismissing ERC Case		
		System Operator in an Out of Merit	instructed by the System	No. 2016-159RC and		
		Dispatch to reduce the provision of	Operator in an Out of Merit	subsequent DOE directives		
		energy specified in its Real-Time	Dispatch to reduce the provision	resulting from said ERC		
		Dispatch instruction exclusively	of energy specified in its Real-	Order.		
		caused by excess generation due to	Time Dispatch instruction			

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ADOPTING FURTHER AMENDMENTS TO THE WHOLESALE ELECTRICITY SPOT MARKET (WESM) RULES AND MARKET MANUAL ON MANAGEMENT OF MUST-RUN AND MUST-STOP UNITS

		WESM Manual on M	Must-Run and Must-Stop Units Iss	sue 8.0 (for current market desi	ign)	
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
		non-compliance of other generators to dispatch instructions.	exclusively caused by excess generation due to non-compliance of other generators to dispatch instructions.			
Definition of Terms	4.5	4.5 Must-Run Unit (MRU) – xxx 4.5.1 Scheduled MRU – xxx 4.5.2 Real Time MRU – xxx xxx	4.5- 4.4. Must-Run Unit (MRU) – xxx  4.5.1 4.4.1 Scheduled MRU – xxx  4.5.2 4.4.2 Real Time MRU – xxx	Re-numbering with deletion of original Section 4.4.		
Definition of Terms	4.6	4.6 Must-Stop Unit (MSU) — a generating unit identified and instructed by the System Operator to reduce the provision of energy due to its non-compliance of the Dispatch Schedule to address or prevent possible threat to the System Security requirements of the Grid.	4.6 Must-Stop Unit (MSU) — a generating unit identified and	For consistency with ERC Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives resulting from said ERC Order.		

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		WESM Manual on M	Must-Run and Must-Stop Units Iss	sue 8.0 (for current market desi	gn)	
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
Definition of Terms	4.7 4.8 4.9 4.10 4.11	<ul> <li>4.7 Out of Merit Dispatch – xxx</li> <li>4.8 System Security – xxx</li> <li>4.9 System Security and Reliability Guidelines – xxx</li> <li>4.10 System Test – xxx</li> <li>4.11 WESM Merit Order Table (WMOT) – xxx</li> </ul>	4.7 4.5 Out of Merit Dispatch – xxx  4.8 4.6 System Security – xxx  4.9 4.7 System Security and Reliability Guidelines – xxx  4.10 4.8 System Test – xxx  4.11 4.9 WESM Merit Order Table (WMOT) – xxx	Re-numbering with deletion of original Sections 4.4 and 4.6.		
Responsibilities	5.5	The System Operator shall be responsible for monitoring and submitting the necessary information in the Dispatch Discrepancy Report to the Market Operator for purposes of the settlement amount of MRUs and Displaced Generators. The Market Operator shall publish the same information in the WESM website after one week.  All information related to the use and designation of MRUs and MSUs are	responsible for monitoring and submitting the necessary information in the Dispatch Discrepancy Report to the Market Operator for purposes of the settlement amount of MRUs	Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives resulting from said ERC		

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		WESM Manual on M	Must-Run and Must-Stop Units Iss	sue 8.0 (for current market des	ign)	
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale
		contained in the Dispatch Discrepancy Report which shall contain the following information as the minimum:  • Trading Date and interval concerned  • Criteria used for the designation of the MRU/MSU  • Short description of the issue being addressed (e.g. frequency breached x Hz)  • Loading of scheduled Ancillary Services	All information related to the use and designation of MRUs and MSUs are contained in the Dispatch Discrepancy Report which shall contain the following information as the minimum:  • Trading Date and interval concerned  • Criteria used for the designation of the MRU/MSU  • Short description of the issue being addressed (e.g. frequency breached x Hz)  • Loading of scheduled Ancillary Services			
Responsibilities	5.6	The Market Operator shall be responsible for implementing the procedures on the settlement of MRUs and Displaced Generators.	The Market Operator shall be responsible for implementing the procedures on the settlement of MRUs and Displaced Generators.	Order dismissing ERC Case		

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	WESM Manual on Must-Run and Must-Stop Units Issue 8.0 (for current market design)								
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale			
Considerations and Criteria for Selection of Must Run Units	7.1	The System Operator shall select and designate the generating unit that will run as an MRU or will be tagged as MSU for any relevant trading interval, in accordance with the criteria set forth in this Manual.	and designate the generating unit that will run as an MRU or will be tagged as MSU for any	Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives resulting from said ERC					
Scheduling and Dispatch Procedures	8.1	The Generating unit/s identified and instructed by the System Operator as MRUs or tagged as MSUs or displaced generators shall be based on the security assessment conducted by the System Operator. The MRU plants utilized by the System Operator shall be reported to the Market Operator for MRU settlement.	and instructed by the System Operator as MRUs or tagged as MSUs or displaced generators shall be based on the security assessment conducted by the System Operator. The MRU	Order dismissing ERC Case No. 2016-159RC and subsequent DOE directives					
Settlement of Displaced Generators	10.0 10.1 10.2 10.3	Generating plants that do not follow the instructions of the System Operator to reduce their target loading for a particular trading interval and continue to generate shall be tagged	Generating plants that do not follow the instructions of the System Operator to reduce their target loading for a particular	Order dismissing ERC Case No. 2016-159RC and					

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Title	Section	Provision	Proposed Amendment		Rationale		Stakeholder Recommendation	Stakeholder Rationale
		as MSUs and shall pay the displaced	generate shall be tagged as	resulting	from sa	id ERC		
		Generators, if any during the said	MSUs and shall pay the	Order.				
		interval. A list of displaced plants shall	<del>displaced Generators, if any</del>					
		be generated by the Market Operator	during the said interval. A list of					
		from the Dispatch Deviation Report	<del>displaced plants shall be</del>					
		provided by the System Operator.	generated by the Market					
		Displaced plants will be identified	Operator from the Dispatch					
		using the WMOT in the interval where	Deviation Report provided by the					
		an MSU was tagged by the System	System Operator. Displaced					
		Operator. The Market Operator will	plants will be identified using the					
		facilitate the process of payment to	WMOT in the interval where an					
		the Displaced Generators by the	MSU was tagged by the System					
		corresponding MSUs in accordance	Operator. The Market Operator					
		with the formula stated in this Manual.	will facilitate the process of					
		Any adjustment in the settlement shall	payment to the Displaced					
		be included in the final billing	Generators by the corresponding					
		statement.	MSUs in accordance with the					
			formula stated in this Manual.					
			Any adjustment in the settlement					
		10.1 Calculation of Amounts due to	shall be included in the final					
		Displaced Generator/s	billing statement.					
		xxx						
			10.1 Calculation of Amounts due					
			to Displaced Generator/s					

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WESM Manual on Must-Run and Must-Stop Units Issue 8.0 (for current market design)											
Title	Section	Provision	Proposed Amendment	Rationale	Stakeholder Recommendation	Stakeholder Rationale					
		10.2 Settlement of Amounts Due to Displaced Generators	***								
		XXX	to Displaced Generators								
		10.3 Settlement of Amounts due to Displaced Generators	•								
			10.3 Settlement of Amounts due to Displaced Generators								
Market Re-run	11.0	11.0 Market Re-run	11.0 10.0 Market Re-run	Re-numbering due to deletion of original Section 10							
		xxx	xxx								