## Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-7) Submit request to <a href="mailto:raymond40@aol.com">raymond40@aol.com</a> via the NYSRC site <a href="mailto:www.nysrc.org">www.nysrc.org</a>

Item   Information					
1. PRR No. & Title of Reliability Rule or Requirement change	PRR 131 <u>C</u> G.2 Loss of Gas Supply – New York City				
2. Rule Change Requester Information					
Name	Reliability Rules Subcommittee (RRS)				
Organization					
3. New rule or revision to existing rule?	Revision				
4. Need for rule change, including advantages and disadvantages	The NYSRC Local Area Operation Reliability Rule G.2 requires the NYS Bulk Power System to be operated so that the loss of a single gas facility does not result in the loss of electric load within the New York City zone.  Con Edison, NYISO and NYSRC RRS, observed a significant failure rate of fuel switching events which could jeopardize the reliability of the NYS Bulk Power System as well as could result in the loss of electric load within the New York City zone. Therefore, new requirements need to be added in order to establish appropriate periodic testing requirements, for both new and existing generating units, that have the ability to automatically swap from natural gas to a liquid fuel source to guard against the sudden interruption of gas fuel supply to the generator. This testing will provide increased assurance that latent equipment performance issues that would preclude successful fuel swap are identified and corrected.  The application of Reliability Rule G.2 relies heavily on the performance of dual fuel capable units to automatically switch-swap fuel from natural gas to liquid fuel whenever experiencing low system gas pressure or a loss of gas condition.				
5. Related NYSRC rules	None				
6. Section A – Reliability Rule Elements					
Reliability Rule	The NYS Bulk Power System shall be operated so that the loss of a single gas facility does not result in the loss of electric load within the New York City zone.				
Associated NERC & NPCC     Standards and Criteria	None				
3. Applicability	NYISO, <u>Market Participants</u> Con Edison				
7. Section B – Requirements					
Requirements	R1. Con Edison shall have in place procedures for operating its system in accordance with G.2 and NYISO requirements. These procedures must include notification to the NYISO when actions are taken in accordance with G.2, and the reasons thereof.				
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R2. The NYISO shall document, maintain, and publish requirements for Con Edison to develop procedures in accordance with G.2, including notification of the NYISO when actions are taken in accordance with G.2, and the reasons thereof. The NYISO shall review and approve Con Edison procedures and required studies, including any updates to such procedures and studies.

R3. The NYISO shall document, maintain and publish the current list of dual fuel units that are part of the Minimum Oil Burn (MOB) program.

R4. The NYISO shall have procedures requiring all Generating Owners of the dual fuel units, which have the ability to automatically swap from natural gas to a liquid fuel source in the event of the sudden interruption of gas fuel supply, loss of gas pressure or unavailability of gas supply to the generator, to test to ensure those units are able to perform their intended functions.

R4.1. A unit shall complete a successful test of the automatic swap from natural gas to a liquid fuel during each *Capability Period*.

The requirement for a test can be substituted by a real-time
automatic fuel swap, if that fuel swap was successful and occurred
during the current *Capability Period*.

R4.2. The NYISO procedures shall identify the appropriate parameters for a test to be considered successful.

R5. Each Generator Owner of a dual fuel unit, which has the ability to automatically swap from natural gas to a liquid fuel source in the event of the sudden interruption of gas fuel supply, loss of gas pressure or unavailability of gas supply to the generator, shall develop and implement appropriate test procedures in accordance with Requirement R4 to ensure those dual fuel units are able to perform their intended functions. These procedures shall be provided to the NYISO and Con Edison.

R6. Each Generator Owner of a dual fuel unit, which has the ability to automatically swap from natural gas to a liquid fuel source in the event of the sudden interruption of gas fuel supply, loss of gas pressure or unavailability of gas supply to the generator, shall test its dual fuel capability per Requirement R5.

R6.1 If the automatic swap from natural gas to a liquid fuel test is not successful, the Generator Owner shall identify the causes of the failure and immediately undertake remedial actions that are necessary to address the failure and keep the NYISO and Con Edison informed as to the progress of its remedial ——actions.

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Measures		
	M1. The NYISO certified that Con Edison submitted, when requested, documents,	
	reports, and analyses in accordance with NYISO requirements and R1 requirements for implementing G.2.	
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	M2. The NYISO made available and provided when requested, complete	
	documentation for implementing G.2, in accordance with R2.	
	M3. The NYISO documented, maintained and published a current list of dual fuel	Formatted: Justified, Indent: Left: 0", Hanging: 0.38", Line
	generating units that are part of the Minimum Oil Burn (MOB) program in	spacing: single
	accordance with R3. The NYISO also had in place procedures, in accordance	
	with R4, requiring all Generator Owners of dual fuel generating units, which	
	have the ability to automatically swap from natural gas to a liquid fuel source	
	to guard against the sudden interruption of gas fuel supply, loss of gas pressure or unavailability of gas supply to the generator, to test to ensure	
	those units are able to perform their intended functions, including	
	identification of parameters for a test to be considered successful.	
	identification of parameters for a test to be considered successful.	
	M4. The NYISO certified that each Generator Owner of a dual fuel generating unit,	Formatted: Justified, Indent: Left: 0", Hanging: 0.38", Line
	which has the ability to automatically swap from natural gas to a liquid fuel	spacing: single
	source to guard against the sudden interruption of gas fuel supply, loss of gas	
	pressure or unavailability of gas supply to the generator, developed and	
	implemented appropriate test procedures in accordance with Requirement	
	<u>R5.</u>	
	M5. The NYISO certified that each Generator Owner of a dual fuel generating unit,	
	which has the ability to automatically swap from natural gas to a liquid fuel	
	source to guard against the sudden interruption of gas fuel supply, loss of gas	
	pressure or unavailability of gas supply to the generator, tested its dual fuel	
	capability per Requirement R5. In addition, If a dual fuel test is was not	
	successful; the Generator Owner identified the causes of the failure and	
	immediately undertook remedial actions that were necessary to address the	
	failure and kept the NYISO informed as to progress of its remedial actions.	
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2. Levels of Non-Compliance		
	For Measure 1:	
	Level 1: Not applicable	
	Level 2: Con Edison transmitted requested information to the NYISO, but the	
	submitted documents, reports, and analyses did not meet R1 and NYISO	
	requirements in one or more areas.	
	Level 3 Not applicable	
	Level 4: Con Edison failed to supply the <i>NYISO</i> with requested documents, reports, and analyses in accordance with R1 and <i>NYISO</i> requirements.	
	For Measure 2:	

Level 1: Not applicable. Level 2: NYISO documentation in accordance with R2 was provided when requested, but was incomplete in one or more areas. Level 3: Not applicable. Level 4: The required NYISO documentation in accordance with R2 was not provided when requested. For Measure 3: Level 1: Not applicable. Level 2: NYISO procedures requiring all Generator Owners of dual fuel units to test their dual fuel capability, including identification of parameters for a test to be considered successful have been prepared, but were incomplete in one or more areas. Level 3: Not applicable. Level 4: NYISO procedures requiring all Generator Owners of dual fuel units to test their dual fuel capability, including identification of parameters for a test to be considered successful have not been prepared. For Measure 4: Level 1: Not applicable. Level 2: The NYISO certified that the required test procedure that was provided was complete, but was not submitted to the NYISO - by one or  $\,$ more Generator Owner - by the specified time by one or more dual fuel units. Level 3: The NYISO certified that the required test procedure was submitted to the NYISO - by one or more Generator Owner - on time, but was incomplete in one or more areas for one or more dual fuel units. Level 4: The NYISO certified that the required test procedure from one or more dual fuel units was not submitted to the NYISO. For Measure 5: Level 1: Not applicable. Level 2: Not applicable. Level 3: Not applicable. Level 4: The NYISO certified that the required dual fuel test (1) has not

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	been performed, or (2) the required test has been unsuccessfully			
	performed and the Generator Owner is not progressing with remedial			
	actions.			
3. Compliance Monitoring				
Process (See Policy 4):				
3.1 Compliance	M1: NY/SO/RCMS	-		
Monitoring Responsibility				
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	• M3: RCMS			
	• M4: NYISO/RCMS			
	M5: NYISO/RCMS		Formatted: Font: 10 pt	
3.2 Reporting Frequency	M1: Annually			
	<ul> <li>M2: In accordance with NYSRC Compliance Monitoring Program schedules</li> </ul>		Formatted: Font:	
	M3: In accordance with NYSRC Compliance Monitoring Program schedules.		Formatted: Font:	
	M4: Annually,			
	M5: Annually,		Formatted: Font:	
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3.3 Compliance Reporting	M1: NYISO Certification of Con Edison compliance.			
Requirements	• M2: NYISO Self-Certification			
	M3: NYISO Self-Certification			
	<ul> <li>M4: NYISO Certification of dual fuel unit compliance.</li> </ul>			
	M5: NYISO Certification of dual fuel unit compliance.		Formatted: Font: 10 pt	
9. Implementation Plan	The NYISO shall prepare appropriate procedures in accordance with R3 and R4			
•	within 90 days of Executive Committee approval of PRR 131. The NYISO shall revise			
	appropriate procedures within 90 days of Executive			
	Committee approval of PRR 131A.		Formatted: Default	
	Committee approval of the 2021		Tornacted. Beladic	
10. Comments		-		
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	There are applications, approved by the NYISO for implementing this Reliability			
1	Rule, which specify minimum oil burn requirements for select generators in New			
	York City.			
	From time to time, changes in system conditions and other circumstances may			
	render existing applications inadequate, or may require alternate applications. Con			
	Edison with NYISO review and approval, shall determine whether revised or			
	additional applications are necessary to meet this Reliability Rule and associated			
	measurements. Any changes must be reviewed by the NYSRC for compliance with			
	the Reliability Rules.			
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11. Date Rule Adopted				
12. PRR Revision Dates	<u>3/7/2016, 4/1/2016, 7/21/2016</u>			
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