Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-7)

Submit reque	est to raymond40@aol.com via the NYSRC site www.nysrc.org	
Item	Information	
1. PRR No. & Title of Reliability Rule or Requirement change	PRR 131C 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	
auvantages and disauvantages	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	Deleted:
	switching events of the Combined Cycle Units (that are part of the Minimum Oil	Deleted:
	Burn (MOB) Program) 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 periodic	 Deleted: appropriate
	testing requirements, for both new and existing <u>Combined Cycle</u> units, that have the	Deleted: generating
	ability to automatically swap from natural gas to a liquid fuel source in the event of	Deleted: to guard against
	the sudden interruption of gas fuel supply or loss of gas pressure or unavailability of	
	gas supply to the generator. This testing will provide increased assurance that latent	Deleted: interruption of gas fuel supply to the generator.
	equipment performance issues that would preclude successful fuel swap are identified and corrected.	generator.
	The application of Reliability Rule G.2 relies heavily on the performance of the	
	Combined Cycle Units (that are part of the Minimum Oil Burn (MOB) Program), to	Deleted: dual fuel capable units
	automatically <u>swap</u> fuel from natural gas to liquid fuel in the event of the sudden interruption of gas fuel supply or loss of gas pressure or unavailability of gas supply	 Deleted: switch
	to the generator,	Deleted: whenever experiencing low system gap pressure or a loss of gas condition
5. Related NYSRC rules	None	
6. Section A – Reliability Rule Elements		
1. 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.	
2. Associated NERC & NPCC Standards and Criteria	None	
3. Applicability	NYISO, Con Edison and Generator Owners of the Combined Cycle Units (that are	
	part of the Minimum Oil Burn (MOB) Program)	Deleted: Market Participants
		Deleted: 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.	Deleted:	[1]
R2. The NYISO shall document, maintain, and publish requirements for Con Edison	Deleted.	([1]
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 Combined		
Cycle units, which have the ability to automatically swap from natural gas to a liquid	Deleted: s	
fuel source in the event of the sudden interruption of gas fuel supply or loss of gas	Deleted: the dual fuel	
pressure or unavailability of gas supply to the generator, to test to ensure those	Deleted: ,	
units are able to perform their intended functions.		
R4.1, The NYISO procedures shall require a unit to complete a successful	Deleted: shall	
test of the automatic swap from natural gas to a liquid fuel during each	Formatted: No underline	
Capability Period.	Formatted: No underline	
A	Formatted: No underline	
The requirement for a test can be substituted by a real-time	Deleted: A	
automatic fuel swap, if that fuel swap was successful and occurred	Formatted: No underline	
during the current <i>Capability Period</i> .	Formatted: No underline	
	Deleted:	
R4.2. The NYISO procedures shall identify the appropriate parameters for a	Formatted: No underline	
test to be considered successful.	Formatted: No underline	
R5. Each Generator Owner of a Combined Cycle unit, which has the ability to	Formatted: Font:Calibri, No	underline
automatically swap from natural gas to a liquid fuel source in the event of the	Formatted: Font:Calibri, No Font color: Auto	underline,
sudden interruption of gas fuel supply or loss of gas pressure or unavailability of gas	Formatted: No underline	
supply to the generator, shall develop and implement test procedures in accordance	Formatted: Font:Italic	
with Requirement R4 to ensure those Combined Cycle units are able to perform their intended functions. These procedures shall be provided to the NYISO and Con	Formatted: Centered, Wido control, Tabs:Not at 3" + 6"	w/Orphan
Edison.	Deleted: dual fuel	
	Deleted: ,	
R6. Each Generator Owner of a Combined Cycle unit, which has the ability to	Deleted: appropriate	
automatically swap from natural gas to a liquid fuel source in the event of the	Deleted: dual fuel	
sudden interruption of gas fuel supply or loss of gas pressure or unavailability of gas	Deleted: dual fuel	
supply to the generator, shall test its dual fuel capability per Requirements R4 and R5.	Deleted: ,	

	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,	(
	shall take steps to undertake remedial actions that are necessary to	Deleted: and
	resolve the failure and keep the NYISO and Con Edison informed as to the	Deleted: immediately
	progress of its remedial actions.	Deleted: address
		Deleted: .
 Section C – Compliance Elements 		Deleted: .
ciements		Deleted:
1. Measures		
	M1. The NYISO certified that Con Edison submitted, when requested, documents,	Deleted:
	reports, and analyses in accordance with NYISO requirements and R1	
	requirements for implementing G.2.	
	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",
	generating units that are part of the Minimum Oil Burn (MOB) program in	Hanging: 0.38", Line spacing: single
	accordance with R3. The NYISO also had in place procedures, in accordance	
	with R4, requiring all Generator Owners of Combined Cycle units, which have	Deleted: dual fuel generating
	the ability to automatically swap from natural gas to a liquid fuel source in	Deleted: to guard against the
	the event of the sudden interruption of gas fuel supply or loss of gas pressure	Deleted:
	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.	
	MAA The ANVICO contified that each Comparison Owner of a Combined Owle with	Formatted: Justified, Indent: Left: 0",
	M4. The NYISO certified that each Generator Owner of a Combined Cycle unit, which has the ability to automatically swap from natural gas to a liquid fuel	Hanging: 0.38", Line spacing: single
	source in the event of the sudden interruption of gas fuel supply or loss of	Deleted: dual fuel generating
	gas pressure or unavailability of gas supply to the generator, developed and	Deleted:
	implemented test procedures in accordance with Requirement R5.	Deleted: Deleted: to guard against the
	M5. The NYISO certified that each Generator Owner of a Combined Cycle unit,	Deleted: ,
	which has the ability to automatically swap from natural gas to a liquid fuel	Deleted: appropriate
	source in the event of the sudden interruption of gas fuel supply or loss of	Deleted:
	gas pressure or unavailability of gas supply to the generator, tested its dual fuel capability per Requirements R4, R5 and R6. In addition, per requirement	Deleted: dual fuel generating
	R6.1, if a dual fuel test was not successful; the Generator Owner identified	Deleted:
		Deleted: to guard against the
	the causes of the failure and took steps to undertake remedial actions that	
	the causes of the failure and took steps to undertake remedial actions that were necessary to resolve the failure and kept the NYISO and Con Edison	Deleted: ,
	the causes of the failure and took steps to undertake remedial actions that were necessary to resolve the failure and kept the NYISO and Con Edison informed as to progress of its remedial actions.	
	were necessary to resolve the failure and kept the NYISO and Con Edison	Deleted: ,
2. Levels of Non-Compliance	were necessary to resolve the failure and kept the NYISO and Con Edison informed as to progress of its remedial actions.	Deleted: , Deleted: is Deleted: immediately
2. Levels of Non-Compliance	were necessary to resolve the failure and kept the NYISO and Con Edison informed as to progress of its remedial actions.	Deleted: , Deleted: is Deleted: immediately Deleted: ook
2. Levels of Non-Compliance	e For Measure 1:	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address
2. Levels of Non-Compliance	were necessary to resolve the failure and kept the NYISO and Con Edison informed as to progress of its remedial actions.	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address Deleted: -
2. Levels of Non-Compliance	e For Measure 1: Level 1: Not applicable	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address Deleted:
2. Levels of Non-Compliance	e For Measure 1: Level 1: Not applicable Level 2: Con Edison transmitted requested information to the <i>NYISO</i> , but the	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address Deleted:
2. Levels of Non-Compliance	e For Measure 1: Level 1: Not applicable	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address Deleted:
2. Levels of Non-Compliance	were necessary to resolve the failure and kept the NYISO and Con Edison informed as to progress of its remedial actions. e 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	Deleted: , Deleted: is Deleted: immediately Deleted: ook Deleted: address Deleted:

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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.		Deleted:
Level 3: Not applicable.		
Level 4: The required <i>NYISO</i> 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 Combined		Formatted: Font:Not Italic
Cycle 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		Deleted: dual fuel
supply or loss of gas pressure or unavailability of gas supply to the		
generator to test their dual fuel capability, including identification of		Deleted: units
parameters for a test to be considered successful have been prepared, but	$\langle \rangle$	
were incomplete in one or more areas.		Formatted: Font:Not Italic
		Formatted: Font:Not Italic
Level 3: Not applicable.	$\langle \rangle$	Deleted: .
		Formatted: Font:Not Italic
Level 4: NYISO procedures requiring all Generator Owners of Combined		Deleted:
Cycle 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 or loss of gas pressure or unavailability of gas supply to the		
generator to test their dual fuel capability, including identification of		Deleted: dual fuel units
parameters for a test to be considered successful have not been prepared.		Deleted: 4
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		Deleted: - 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,	-	Deleted: 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:		
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	Level 1: Not applicable.	1		
	Level 2: Not applicable.			
	Level 3: Not applicable.			
	Level 4: The NYISO certified that the required dual fuel test (1) has not			
	been performed, or (2) the required test has been unsuccessfully performed and the Generator Owner is not progressing with remedial			
	actions.			
	v		Deleted: .	[4]
 Compliance Monitoring Process (See Policy 4): 				
3.1 Compliance	• M1: NYISO/RCMS			
Monitoring Responsibility	•M2: RCMS			
	• M3: RCMS			
	• M4: NYISO/RCMS			
	• <u>M5: NYISO/RCMS</u>		Formatted: Font:10 pt	
3.2 Reporting Frequency	M1: Annually			
	 M2: In accordance with NYSRC Compliance Monitoring Program schedules 		Formatted: Font:	
	M3: In accordance with NYSRC Compliance Monitoring Program schedules		Formatted: Font:(Default)	
	M4: Annually M5: Annually		Formatted: Font:(Default)	
	MS. Annuary		Formatted: Font:Calibri, 1	0 pt
3.3 Compliance Reporting	 M1: NYISO Certification of Con Edison compliance. 			
Requirements	M2: NYISO Self-Certification			
	• M3: NYISO Self-Certification			
	• M4: NYISO Certification of dual fuel unit compliance.		Earmattad: East: Calibri 1	0 pt
	<u>M5: NYISO Certification of dual fuel unit compliance.</u>		Formatted: Font:Calibri, 1	σρι
9. Implementation Plan	A NYISO Tariff change will be required before the rule changes in this PRR can be		Formatted: Default	
	implemented. Following NYSRC Executive Committee approval of PRR 131C, the			
	NYISO shall pursue the tariff revisions necessary to establish the authority needed			
	to comply with this rule change. Within 60 days of receiving FERC approval for the			
	Tariff change, the NYISO shall submit evidence to the NYSRC RCMS that the NYISO			
	has modified its appropriate procedures to comply with PRR 131C rule changes		Deleted: The NYISO shall prep	
			procedures in accordance with F days of Executive Committee ap	
10. Comments	D. Guidelines		Deleted: The NYISO shall revis procedures within 90 days of Ex	e appropriate
	There are applications, approved by the NVICO for implementing this Delichility		(<u> </u>	
	There are applications, approved by the NYISO for implementing this Reliability 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	3/7/2016, 4/1/2016, 7/21/2016, 8/5/2016, 8/8/2016, 9/1/2016