Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-7) Submit request to raymond40@aol.com via the NYSRC site www.nysrc.org

Item	Information	
1. PRR No. & Title of Reliability Rule or Requirement change	PRR 131 Reliability Rule I.6: Dual Fuel Generating Unit Testing	
2. Rule Change Requester Information		
Name	Reliability Rules Subcommittee (RRS)	
Organization		
3. New rule or revision to existing rule?	New	
A Need for mile shows a including		
4. Need for rule change, including advantages and disadvantages	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 that could result in the loss of electric load. Therefore, new requirements need to be added in order to establish appropriate periodic testing requirements,	Deleted: the
	for both new and existing generating units, that have dual fuel capability. This testing will provide increased assurance that latent equipment performance issues	Deleted: old
	that would preclude successful fuel are identified and corrected.	Deleted: the
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	The reliability of the NYS Bulk Power System relies heavily on the performance of dual fuel capable units to either 1) burn both fuels simultaneously prior to experiencing low system gas pressure or a loss of gas condition (applicable to steam electric units) or 2) automatically switch fuel from natural gas to liquid fuel whenever experiencing low system gas pressure or a loss of gas condition (applicable to simple cycle / combined cycle units).	Deleted: yin
5. Related NYSRC rules	G.2 & G.3 Loss of Gas Supply	Deleted: – N – Long Island
6. Section A – Reliability Rule Elements		
Reliability Rule	1.6.	Deleted: .
	The dual fuel capability of all NYCA generating units with duel fuel capability shall be	Formatted:
	tested.	Deleted: P
Associated NERC & NPCC Standards and Criteria	None	
3. Applicability	NYISO, Generator Owners	
7. Section B – Requirements		
Requirements	R1. The NYISO shall document, maintain and publish a current list of all NYCA dual fuel generating units.	Deleted: P

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R2. The NYISO shall have procedures requiring all Generator Owners of dual fuel	
generating units, that have generation resources connected at one site with an	
aggregate capacity of more than or equal to 75 MVA (gross nameplate rating), to	
test the unit's dual fuel capability in each <code>_capability Period_</code> as follows:	Deleted: c
	Deleted: p
Simple Cycle / Combined Cycle units:	Formatted: Font:Italic
Each Simple Cycle / Combined Cycle unit shall complete a	
successful test of the automatic swap to a liquid fuel during each	Deleted:
Capability Period.	
The requirement for a test can be substituted by a real-time	
automatic fuel swap, if the most recent fuel swap was successful	
and the latter occurred during the current Capability Period.	
Steam Electric units:	
Each Steam Electric unit shall complete a successfully test that it	
can maintain a minimum level of oil as part of the unit fuel burn	Deleted: , , ,
mixture for each Capability Period.	Deleted: ,
The requirement for a test can be substituted by a real-time burn	
of fuel mixture, if the latter occurred during the current <i>Capability</i>	
Period.	
R2.1. The NYISO procedure shall identify the appropriate parameters for a	
test to be considered successful.	
R3. Each Generator Owner of a dual fuel unit shall develop and implement	
appropriate test procedures in accordance with Requirement R2 to ensure those	
dual fuel units are able to perform their intended functions. This test procedure shall be shared with the NYISO.	
R4. Each Generator Owner of a dual fuel unit shall test its dual fuel capability per	
Requirement R3.	
R4.1 If a dual fuel test is not successful, the Generator Owner shall identify	
the causes of the failure and immediately undertake <u>remedial actions</u> that	Deleted: repairs
are necessary to address the failure and keep the NYISO informed as to the	Deleted:
progress of its <u>remedial actions</u> .	Deleted: dual fuel unit repairs
Section C – Compliance	
Elements	

1	Manageman			
1.	Measures	M1. The NYISO documented, maintained and published a current list of dual fuel		Formatted: Indent: Left: 0", First line: 0"
		generating units in accordance with R1. The NYISO also had in place procedures, in	_	
		accordance with R2, requiring all Generator Owners of dual fuel units, that have		Deleted:[2]
		generation resources connected at one site with an aggregate capacity of more than		
		or equal to 75 MVA (gross nameplate rating), to test their dual fuel capability,		
		including identification of parameters for a test to be considered successful.		
		M2, The NYISO certified that each Generator Owner of a dual fuel generating unit		Deleted: 3
		developed and implemented appropriate test procedures in accordance with		Deleted: E
		Requirement R3.		
		M3. The NYISO certified that each Generator Owner of a dual fuel generating unit		Deleted: 4
		tested its dual fuel capability per Requirement R3, In addition, If a dual fuel		Deleted: E
		test is was not successful; the Generator Owner identified the causes of the		Deleted: 4
		failure and immediately undertook remedial actions, that were necessary to		Deleted: repairs
		address the failure and kept the NYISO informed as to progress of its remedial actions.		Deleted: dual fuel unit repairs
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2.	Levels of Non-Compliance			
	•	For Measure 1:		
		Level 1: Not applicable.		
		Level 2:		Deleted: NYISO documentation in accordance
		NYISO procedures requiring all Generator Owners of dual fuel units to test		with Requirement R1 was a provided when
		their dual fuel capability, including identification of parameters for a test to		requested, but was incomplete in one or more areas [3]
		be considered successful have been prepared, but were incomplete in one		Formatted: Indent: Left: 0.5", Space
		or more areas.		After: 0 pt, Line spacing: single
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		Level 3: Not applicable.		
		Level 4:		Deleted: The required NYISO documentation in
		NYISO procedures requiring all Generator Owners of dual fuel units to test		accordance with Requirement R1 was not provided when requested [4]
		their dual fuel capability, including identification of parameters for a test to		Formatted: Indent: Left: 0.5"
		be considered successful have not been prepared.		Formatted: Font:10 pt
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				Deleted: For Measure 2:
		V		Deleted: Level 1: Not applicable
				Deleted: Level 2: NYISO procedures requiring all Generator Owners of dual fuel units to test their
		▼		dual fuel capability, including identification of
				parameters for a atest to be considered successful
		▼		have been prepared, but were incomplete -in one
				or more areas. Deleted: "Level 3: Not applicable.
		▼		
				Deleted: Level 4: NYISO procedures requiring all Generator Owners of dual fuel units - to test their
				dual fuel capability, including identification of
		For Measure 2;		parameters for a a test to be considered successful
		- - -		have not been prepared.
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Deleted: 4 Deleted: M2: In accordance with Complia Program Formatted: Indent: Left: 0.25", No I or numbering tion of dual fuel unit compliance. tion of dual fuel unit compliance. paperopriate procedures in accordance with R1 and R2 ive Committee approval of PRR 131.
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the Generator Owner is not progressing with remedial Deleted: unit
d, or (2) the required test has been unsuccessfully
ISO certified that the required dual fuel test (1) has not
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units was not submitted to the NYISO.
ISO certified that the required test procedure from one or
e NYISO - by one or more Generator Owner - on time, but in one or more areas for one or more dual fuel units.
ISO certified that the required test procedure was
Towner - by the specified time by one of more dual fuel
omplete, but was not submitted to the NYISO - by one or r Owner - by the specified time by one or more dual fuel
ISO certified that the required test procedure that was
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