

Project 2012-13 Nuclear Plant Interface Coordination

Mapping Document

NUC-001-2.1 to NUC-001-3

Standard: NUC-001-3		
Requirement in Approved Standard	Translation to New Standard or Other Action	Comments
R5. The Nuclear Plant Generator Operator shall operate per the Agreements developed in accordance with this standard.	Replaced with NUC- 001-3 R5. Per the Agreements	The FYRT recommended R5 be revised for consistency with R4 and to clarify that nuclear plants must be operated to meet the NPIRs.
	developed in accordance with this standard, the	
	Nuclear Plant Generator	
	Operator shall operate the nuclear plant to meet the	
	Nuclear Plant Interface	



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	Requirements (NPIRs).	
R7. Per the Agreements developed in accordance with this standard, the Nuclear Plant Generator Operator shall inform the applicable Transmission Entities of actual or proposed changes to nuclear plant design, configuration, operations, limits, Protection Systems, or capabilities that may impact the ability of the electric system to meet the NPIRs.	Inserted (e.g., protective relay setpoints) after the words "nuclear power plant design"	The FYRT recommended deleting "Protection Systems" in Requirements R7 and R8 since it is a subset of the "nuclear plant design" and "electric system design" elements currently contained in R7 and R8 respectively; and adding a parenthetical clause (e.g. protective setpoints) to R7 following "nuclear plant design" and parenthetical clause (e.g. relay setpoints) to R8 following "electric system design."
R8. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall inform the Nuclear Plant Generator Operator of actual or proposed changes to electric system design, configuration, operations, limits, Protection Systems, or capabilities that may impact the ability of the electric system to meet the NPIRs.	Inserted (e.g., protective relay setpoints) after the words "electric system design." Deleted the words "Protection Systems"	Same comment as above.
R9. The Nuclear Plant Generator Operator and the applicable Transmission Entities shall include, as a	Inserted the following text after	The FYRT recommended that R9 be revised to clarify that all Agreements do not have to discuss each of the



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minimum, the following elements within the	R2: Where multiple	elements in R9, but that the sum total of the agreements
agreement(s) identified in R2: [Violation Risk Factor: Medium] [Time Horizon:]	Agreements with a single Transmission	need to address the elements. In addition, for clarity in Part 9.4.1, the FYRT recommended that "affecting the
9.1. Administrative elements:	Entity are put into	NPIRs" be inserted following "Provisions for
9.1.1. Definitions of key terms used in the agreement.	effect, the R9	communications" and "applicable unique" be inserted
9.1.2. Names of the responsible entities, organizational	elements must be	following ""definitions of." The phrase "load shedding
relationships, and responsibilities related to the NPIRs.	addressed in	programs" in Requirement subpart 9.3.7 was deleted
9.1.3. A requirement to review the agreement(s) at	aggregate within	and replaced with the phrase "any programs that reduce
least every three years. A dispute resolution	the Agreements;	or shed load based on underfrequency or undervoltage."
mechanism.	however, each	This was done to avoid potential conflicts with the
9.2. Technical requirements and analysis:	Agreement does	Project 2008-02 Team which is attempting to make
9.2.1. Identification of parameters, limits,	not have to contain	undervoltage loadshedding programs a NERC defined
configurations, and operating scenarios included in the	each element.	term.
NPIRs and, as applicable, procedures for providing any	Where Agreements	
specific data not provided within the Agreement.	with multiple	
9.2.2. Identification of facilities, components, and	Transmission	
configuration restrictions that are essential for meeting	Entities are	
the NPIRs.	required, the	
9.2.3. Types of planning and operational analyses	Nuclear Plant	
performed specifically to support the NPIRs, including	Generator	
the frequency of studies and types of Contingencies and	Operator has the	
scenarios required.	responsibility for	



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 9.3. Operations and maintenance coordination 9.3.1. Designation of ownership of electrical facilities at the interface between the electric system and the nuclear plant and responsibilities for operational control coordination and maintenance of these facilities. 9.3.2. Identification of any maintenance requirements for equipment not owned or controlled by the Nuclear 	ensuring all the R9 elements are addressed in aggregate within the Agreements with the Transmission Entities. The	
Plant Generator Operator that are necessary to meet the NPIRs. 9.3.3. Coordination of testing, calibration and maintenance of on-site and off-site power supply systems and related components. 9.3.4. Provisions to address mitigating actions needed to avoid violating NPIRs and to address periods when responsible Transmission Entity loses the ability to assess the capability of the electric system to meet the	Agreements with each Transmission Entity do not have to contain each element; however, the Agreements with the multiple Transmission Entities, in the	
NPIRs. These provisions shall include responsibility to notify the Nuclear Plant Generator Operator within a specified time frame.	aggregate, must address all R9 elements. The Nuclear Plant Generator	



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 9.3.5. Provision for considering, within the restoration process, the requirements and urgency of a nuclear plant that has lost all off-site and on-site AC power. 9.3.6. Coordination of physical and cyber security protection of the Bulk Electric System at the nuclear plant interface to ensure each asset is covered under at least one entity's plan. 9.3.7. Coordination of the NPIRs with transmission system Special Protection Systems and underfrequency and undervoltage load shedding programs. 9.4. Communications and training Administrative elements: 	Operator and the Transmission Entity have the responsibility to ensure the Agreement(s) with that Transmission Entity contains the elements of R9 applicable to that Transmission Entity."	
 9.4.1. Provisions for communications between the Nuclear Plant Generator Operator and Transmission Entities, including communications protocols, notification time requirements, and definitions of terms. 9.4.2. Provisions for coordination during an off-normal or emergency event affecting the NPIRs, including the need to provide timely information explaining the event, an estimate of when the system will be returned 	Requirement R9.1 approved for retirement by FERC January 2014.	



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to a normal state, and the actual time the system is returned to normal. 9.4.3. Provisions for coordinating investigations of causes of unplanned events affecting the NPIRs and developing solutions to minimize future risk of such events. 9.4.4. Provisions for supplying information necessary to report to government agencies, as related to NPIRs. 9.4.5. Provisions for personnel training, as related to NPIRs.	Inserted the words "affecting the NPIRs" between the words "communications" and "between" in R 9.4 Inserted the words "applicable unique"	
THE ITO.	between the words "of" and "terms"	