Operating Guides Revision Request

OGRR Number		OGRR Title	NERC Standard PRC-001-1 Requirement
Date Posted			

Operating Guides (OG) Section(s) Requiring Revision (Include Section No. and Title)	Add a new Section 7.2.4, *Compliance Requirement for ERCOT System Facilities* after current Section 7.2.3, *Performance Analysis Requirements for ERCOT System Facilities*. The section numbers thereafter change accordingly.
Protocol Section(s) Requiring Revision, if any	None
Requested Resolution (Normal or Urgent, and justification for Urgent status)	Normal
Revision Description	This Operating Guide Revision Request (OGRR) proposes an addition for meeting NERC Standard PRC-001-1, R2.2 requirement
Reason for Revision	This OGRR is being proposed for the following reasons: ▪ A follow-up action to the Market Notice M-A032408-01 ▪ Meeting NERC Standard PRC-001-1 requirement
Overall Market Benefit	The intent of this OGRR is to maintain system reliability upon protective relay system equipment failure
Overall Market Impact	Facility Owners of transmission protection systems will have to take more actions to meet the standard but the transmission system reliability will be greater
Consumer Impact	

Quantitative Impacts and Benefits

Instructions: To allow for comprehensive OGRR consideration and development of the Cost Benefit Analysis (CBA), please fill out each block below **completely and provide as much detailed information as possible.** Wherever possible, please include reasons, explanations, and cost/benefit analyses pertaining to this OGRR.

Assumptions	1		
	2		
	3		
	4		
Market Cost		**Impact Area**	**Monetary Impact**
	1	*Facility Owners of transmission protection systems will have to take more actions to meet the standard but the transmission system reliability will be greater*	
	2		
	3		
	4		
Market		**Impact Area**	**Monetary Impact**

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Benefit	1	*maintain system reliability upon protective relay system equipment failure*	
	2		
	3		
	4		
Additional Qualitative Information	1		
	2		
	3		
	4		
Other Comments	1		
	2		
	3		
	4		

Sponsor	
Name	Glenn Hargrave
E-mail Address	GRHargrave@cpsenergy.com
Company	Centerpoint Energy
Phone Number	210-353-4215
Cell Number	210-394-1313
Market Segment	

Market Rules Staff Contact	
Name	
E-Mail Address	
Phone Number	

Proposed Guide Language Revision

Instructions: **Guidelines and helpful hints may be found at the following link: http://www.ercot.com/mktrules/protocols/index.html.**

Please remember the following:

- **Use the most current version of the Guide language, which is available on the ERCOT website.**
- **Show original Guide baseline language in black.**
- **Present the entire titled (sub) section as the baseline – not just the paragraphs subject to revision.**

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- **Make all revisions in redlined format (using "Track Changes"). Be sure to change the user name to the appropriate individual or company name. Do NOT show revisions by changing font color or font strikethrough.**
- **Use highlighting when inserting non-Guide language comments (like questions) into Guide language.**
- **Be sure proposed changes are reflected in both boxed and unboxed sections, if appropriate.**

Insert proposed Guide language here.

Proposed Guide Language Revision

7.2.3 Performance Analysis Requirements for ERCOT System Facilities

7.2.4 Compliance Requirement for ERCOT System Facilities

Transmission Owners, Generator Owners, and Distribution Providers (The Facility Owner) must take the following action for each known failure of any protective relays, associated communication systems, voltage and current sensing devices, station batteries, DC control circuitry, or degraded Protection System elements on the Bulk-Power System that would threaten reliable operation:

a. If functionally equivalent protective relaying remains in-service to ensure system reliability, the failed relay is to be repaired or replaced with functionally equivalent protective relay(s) within 5 days. The Facility Owner shall immediately (within 2 hours of discovery) notify ERCOT ISO Operations Shift Supervisor Desk of the relay failure (phone or e-mail). If the failed relay cannot be repaired or replaced with functionally equivalent protective relays within 5 days, the Facility Owner shall notify ERCOT ISO Operations Shift Supervisor Desk in accordance with NERC Standard PRC-001-1, R2.2 by using Operating Guides Section 6.1.3, System Protection Coordination Report.

b. If functionally equivalent protective relaying does not remain in-service to ensure system reliability, the failed relay is to be repaired or replaced with functionally equivalent protective relay(s) within 24 hours. The Facility Owner shall immediately (within 2 hours of discovery) notify ERCOT ISO Operations Shift Supervisor Desk of the relay failure (phone or e-mail). If the failed relay cannot be repaired or replaced with functionally equivalent protective relay(s) within 24 hours, the Facility Owner shall notify ERCOT ISO Operations Shift Supervisor Desk in accordance with NERC Standard PRC-001-1, R2.2 by using Operating Guides Section 6.1.3, System Protection Coordination Report. ERCOT ISO will conduct a reliability study for any corrective actions to be taken. This study will be completed within 24 hours after notification.

Reference: NERC SPCTF Assessment of Standard PRC-001-0-System Protection Coordination

7.2.5 Maintenance and Testing Requirements for ERCOT System Facilities

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1. The Facility Owner shall test and verify the operation of each new or modified protective relay system prior to placing the equipment in its zone of protection in service.
2. Facility Owners shall have documented protective relay system maintenance and testing programs in place. Documentation shall include identification of protective relay system, a summary of testing procedures including requirements for frequency of tests, and the date last tested.
3. The Facility Owner shall periodically test and inspect all components of the protective relay system to assure continued reliability. Identified deficiencies shall

be corrected. Documentation demonstrating compliance with the Facility Owner's maintenance and testing programs shall be supplied to ERCOT or NERC upon their request within 30 days.

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7.2.6 Requirements and Recommendations for ERCOT System Facilities

6.1.3 System Protection Coordination Report

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¶

EVENT DATE:	EVENT TIME:	OWNER:	VOLTAGE:
EQUIPMENT:	STATION:	AFFECTED PROTECTION SYSTEM:	
MANUFACTURER:	AFFECTED TDSP:		

Description:

(80 Character)

Investigation Results:

(80 Character)

Corrective Action:

(80 Character)

Expected Repair Date:	

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Organization filing report:			Report Date:
Phone Number:			

Protection System: Protective relays, associated communication systems, voltage and current sensing devices, station batteries and DC control circuitry.