NERC Violation ID Reliability Standard	Req.	Violation Risk Factor	Violation Severity Level	Violation Start Date	Violation End Date	Method of Discovery	C
NPCC2017017379 PRC-005-1.1b	R2.; 2.1	High	Lower	12/5/2014	Present	Self-Report	9
							c
Description of the Noncompliance (For purposes of this document, each noncompliance at issue is described as a "noncompliance," regardless of its procedural 	April 7, 2017, Exel -Report on Augus Ion Nuclear did no Fhirteen (13) out of e-phase CTs (six (115kV step up tra- bociated with the grassociated with a grassoc	Ion Nuclear submitted a Selicit 11, 2017, January 24, 2018 of perform testing in accord of 111 Current Transformer (6) total CTs) that are associ- insformer. (The 19kV side CT generator differential relay. Or generator backup directional even (7) sections of DC contro- tone (1) section of DC contro- tone (1) section of DC contro- ta. (vi) one (1) section of DC contro- terminate at breaker trip co- (15) sections of the DC contro- vide offsite power to NMP1. There that provide off-site po- e relay to the lockout relay a of 372 sections of DC contro- owner breaker trip coils that a system and (ii) three (3) sec- tor function of 150 sensing devices, the name of the Station Auxiliary Trans 4.16 kV) of the SAT that also the overcurrent relay for the name that provide off the station function the 115 kV system. (ix) eigen at the overall root cause of the pring from PRC-005-1b to PR emaintenance that was com- f the missed testing that com-	f-Report stating, as a Generator 8, and October 1, 2018. ance with its Protection System s (CTs) and nine (9) out of 150 s ated with the 4kV side of the 19 T set associated with the differe One (1) set of CTs is at the neut al distance relay for remote tran- rol circuitry that terminate at G l circuitry that terminates at one C control circuitry from the brea- sociated with one of the two Gi ol circuitry and one (1) out of 18 bils that are associated with the crol circuitry that terminate at b . (iii) Twenty (20) sections of th wer to NMP1 from the two (2) from and (v) one (1) backup generato ol circuitry at its Nine Mile Point at are associated with the redured ections of DC control circuitry be hirteen relays, eight sudden pre- tial Transformers (PTs), one (1) I overvoltage). (ii) twelve (12) C nsformer (SAT) differential relay, ne "A" and "B" Main Power Tran- ht (8) sudden pressure relays ar the violation at Ginna, NMP1, an RC-005-2/6. A contributing factor appleted by the previous GO with uld have been performed after the solution at Ginna of the the solution at Ginna of the and (v) on the previous GO with and have been performed after the and the solution at Ginna of the the solution at Ginna of the solution at Ginna of the the solution at Ginna of the the solution at Ginna of the the and the solution at Ginna of the the so	Maintenance Pro- ections of DC cor 9/4kV auxiliary tra- ential relay was te- ral terminals of the smission faults. inna owned bread e of the two Ginn- ker backup relay nna output breaker reaker trip coils a e DC control circu 115kV Transmissi r undervoltage pro- t Nuclear Station, ndant differential etween the gener essure relays, and CT)1 and one (1) Ts (4 CTs with 3 pro- r, (iv) three (3) CT- (vi) two (2) CTs con- sformers. These and four (4) associa- the incoming Ex- the acquisition ha	vas in violation of PRC-005 ogram ("PSMP") for: ntrol circuitry at the R.E Gi ansformer differential rela ested in accordance with E ne main generator, and th ker trip coils that come fro a output breaker trip coils to the trip coil of a downs ters). Mile Point Nuclear Station backup protection and the associated with one of the uitry that terminate at bre on Owner lines, (iv) three rotection relay that trips o . Units 2 (NMP2). Specifica protection schemes on ea rator exciter Volts/Hertz re four associated pressure i neutral transformer) asso hases each) associated wi s also on the HV side bush on the X and Y winding neu- relays provide backup pro ated pressure sensors that a lack of proper management hecame the GO and Gen elon PSMP. As such, much ad the Exelon Nuclear PSM	inna Nuclear Power Plant (Ginn y. The auxiliary transformer is xelon's PSMP). (ii) Two (2) oth e other set is at the line termin om the Transmission Owner bro s that come from Transmission tream Ginna breaker that wou h, Units 1 (NMP1). Specifically, e secondary breaker backup pro- two routes of redundant prote aker trips coils that are associa (3) sections of DC control circu- one of the two NMP1 output br ally, this included (i) sixteen (10 ach of the 345/138 kV transfor elay and the multi-purpose loc sensors at its Jame A. FitzPatrico ciated with generator volts per th Main Generator Exciter diffe- nings of the SAT that feed an in utrals that feed neutral overcur- tection for system faults. (viii) t support one of the two main ent oversight and attention to per the testing that was not co iP not lacked clarity for the per	Len ten ten ten ten ten ten ten t

Mitigation ompletion Date	Date Regional Entity Verified Completion of Mitigation
9/30/2020	TBD
approved	
ompletion	
date)	
t of conditio	on reviews, Exelon Nuclear updated its
Specifically ectly conne- sets of three of the mair	r, this included (i) two (2) sets of the cted to the main generator and the e-phase CTs (six (6) total CTs) n generator. (iii) One (1) single phase
er backup r vner breake be sent a sig	elays associated with off-site power r backup relays associated with off-site mal to open if the particular Ginna
included (i action assoc on schemes with redur associated acers.) fourteen (14) sections of the DC iated with the two NMP1 output 5 on two (2) - 115kV Transmission idant differential protection on each of with a main generator exciter
ections of D rs that prov it relay.	OC control circuitry that terminate at ide off-site power to NMP2 from the
luclear Pow ertz protect ntial protec ntaneous/ti nt relays. (vi rteen (13) ro ver transfor	ver Plant (FitzPatrick). Specifically, this ion and the generator stator ground tion. (iii) Three (3) CTs on the high- me overcurrent relay (v) fifteen (15) ii) two (2) Main Power Transformer elays associated with an overcurrent mers.
ail in the im nber 2014 f leted was ir mance of tl	plementation of the Exelon PSMP as or the three units and there was the herited by Exelon. However, there nose specific maintenance/test

	At Ginna, NMP1, and NMP2, the duration of the violation is approximately 4 years spanning from December 5, 2014 (effective date of the Exelon Nuclear GO 2018.
	NPCC determined that the root cause of the violation at FitzPatrick was the lack of proper implementation and documentation of the PRC-005 program by the announced in 2015 that the plant would close in January 2017. On the March 31, 2017 effective date of Exelon Nuclear being registered as the GO/GOP/TO f However, Exelon Nuclear also performed a line-by-line walk down of FitzPatrick PSMP components during the September 2018 refueling outage and failed to now cannot be tested until the unit is offline for the Fall 2020 refueling outage. Otherwise, all PRC-005 testing and documentation would have been in place 2018 outage.
	At FitzPatrick, the violation start date is March 31, 2017 (effective date of GO registration) and the end date will be September 30, 2020 when the two (2) DC refueling outage.
Risk Assessment	This violation posed a moderate risk and did not pose a serious or substantial risk to the reliability of the bulk power system (BPS) based on the following fact generating units with an aggregate nameplate rating of approximately 3,375 MW. The failure to maintain and test the affected components could have caus fail to operate. Under certain conditions, this could cause the generating units to either trip offline unnecessarily, operate in an unstable manner potentially system conditions, and/or cause the nuclear site to exceed its Technical Specification for off-site power where a controlled plant shutdown would be initiated
	The Points of Interconnection (POIs) to the BES of the four generating units are in close electrical proximity to one another and in the same generation corrid Oswego Generation Complex, which is listed by the New York Independent System Operator (NYISO) as a stability-constrained Interconnection Reliability Op Control Area. If the violation had caused the loss of all of Exelon Nuclear's generating capacity during a system event, the aggregate capacity of the four non- current NYISO daily Operating Reserve of 1,965 MW. However, this would be a highly improbable situation as the overall redundancy associated with the ov aspects of the relay protection systems (e.g. DC wiring associated with the breaker backup relays and redundant transmission line protective relaying) and the indirectly provided some indication of the functionality of the unmaintained equipment reduced the probability of a misoperation and reduced the risk to the
	No harm is known to have occurred as a result of this violation.
Mitigation	 To mitigate this violation, Exelon Nuclear: completed the maintenance activities at Ginna, NMP1, NMP2 and most of the maintenance activities at FitzPatrick, with the exception of two DC circl performed a line-by-line Protection System component review of all four units to ensure that all activities listed apply to each component listed in the work control system codes, and that all procedure descriptions are accurate. revised its PSMP procedure to more clearly identify the exciter DC circuitry as being included in the PSMP. Although the procedure already included t an addendum were clarified to prevent any possible confusion in the future. developed new site-specific procedures for each of the four generating units that each individual site will have revision and content control over. The procedures was independently reviewed and verified by a contracted third-party engineering firm to ensure that all protection system components v PRC-005 program. reviewed all governance documents to ensure that adequate prompts and barriers are in place to ensure PRC-005 implications are evaluated for any 6. conducted awareness briefings to the Ginna, NMP, and FitzPatrick Site Leadership Teams on the importance of the proper execution and challenge o scoping. performed a formal benchmarking of a recommended PRC-005 program at another Nuclear GO/GOP to identify lessons learned and best practices.
	To mitigate this violation, Exelon Nuclear will
Other Factors	NPCC considered that Exelon Nuclear self-reported this violation and awarded some mitigating credit for self-reporting.
	NPCC reviewed the entity's internal compliance program (ICP) and considered it to be a neutral factor in the penalty determination.
	NPCC considered Exelon Nuclear's compliance history and determined that there is a prior relevant instance of affiliate noncompliance in NPCC and NPCC co aggravating factor in the penalty determination.

) registration for those 3 sites) to December 12,

ne previous plant owner. The previous owner for the plant, the violations already existed. o identify two (2) DC circuitry components that at FitzPatrick at the conclusion of the September

C circuitry components are tested during the

ctors. The uncompleted maintenance affected four sed the Protection System to either misoperate or leading to cascading outages under stressed ed.

dor. In particular, NMP1 and 2 are part of the berating Limit (IROL) interface in the New York -compliant generators significantly exceeds the verwhelming majority of the unmaintained ne other tests performed by Exelon Nuclear that he BPS.

cuitry components associated with relays. ne PRC-005 matrix, that all information is aligned to

the exciter DC circuitry, specific references within

e PRC-005 matrix for each unit within the were appropriately scoped within Exelon Nuclear's

/ change.
of PRC-005 related maintenance, testing, and

onsidered that prior noncompliance to be an

In determining the penalty, NPCC concluded that despite some aspects of the missed testing that could have been performed after the acquisition of the Ne identified and found to be incomplete was inherited by Exelon Nuclear. This circumstance limits the aggravation of Exelon Nuclear's previous compliance hi
As a non-monetary sanction, ReliabilityFirst and NPCC will conduct a spot check of Exelon Nuclear in the summer of 2021 to evaluate Exelon Nuclear's ongoi

ew York plants, much of the testing that was history.

bing compliance with PRC-005-6 R2.

NERC Violation ID	Reliability Standard	Req.	Violation Risk Factor	Violation Severity Level	Violation Start Date	Violation End Date	Method of Discovery	Mitigation Completion Date	Date Regional Entity Verified Completion of Mitigation		
RFC2018019546	PRC-005-1.1b	R2; 2.1	High	Lower	1/1/2015 (the date Exelon Nuclear missed its first required maintenance and testing activity)	12/18/2019 (Mitigation Plan completion)	Self-Report	12/18/2019	4/15/2020		
Description of the Viola	tion (For purpose	s of this	On April 5, 2018, Exelon N	luclear submitted a Self-Repc	ort to ReliabilityFirst stating that, as a C	Generator Owner (GO), it was in violation	n of PRC-005-1.1b R2.				
document, each violati	on at issue is desc	ribed as									
a "violation," regardles posture and whether it confirmed violation.)	s of its procedural was a possible, or	l r	During an extent of condit procedure section for the performed when initially s months). However, Exelor procedure requires the sta at a later date within the i could not be performed d tracked either reschedulir	The part extent of condition review, which was performed across the Exclore reducts of which were addressed in initigation for the Coroors as performed discovered that the procedure section for the Byron Station Unit 1 Unit Auxiliary Transformer (UAT) 141-1 differential relay sensing circuit testing was marked as "not applicable," which indicates that testing was not rformed when initially scheduled. The implementation procedure at Byron Station requires sensing circuit testing for the Protection System to be performed once each refueling cycle (typically every 1 ports). However, Exelon Nuclear's procedure permits an extension of that interval by processing a deferral when based on documented justification (e.g., for personnel safety reasons). In this case, the ocedure requires the station to generate an "Issue Report" to document that the sensing circuit testing could not be performed and to track the incomplete portion of the testing to ensure completion a later date within the interval or to process a deferral as necessary. The entity should have generated an Issue Report to document that, on the scheduled day of the testing, the sensing circuit testing uld not be performed due to the electrical line-up (i.e., the circuit was energized and therefore due to safety concerns the testing could not be executed). The Issue Report, if written, would have acked either rescheduling the testing within the defined testing interval or initiating a deferral of the testing per the PRC-005-1.1b program.							
			In this case, Byron Station electrical line-up and the s	did not generate an Issue Re safety concerns listed above.	 port as required per Exelon Nuclear's) As such, the testing was not reschedu 	procedure. (If a deferral had been proce uled and a deferral was not processed.	essed, the incomplete te	iting would have bee	n justified based on the		
			After discovering the issue completed at eight additic	r discovering the issue at Byron Station Unit 1, Exelon Nuclear continued performing its PRC-005 extent of condition review and identified the following additional instances when testing was not pleted at eight additional nuclear units in RF (at the time of the extent of condition review, Exelon Nuclear had 18 nuclear units under the NERC Registration (NCR00778) in the RF Region):							
			(a) Byron Station (Unit 1) personnel safety concerns Issue Report was not gene	Byron Station (Unit 1) (i) UAT 141-2 CTs associated with the Differential Relay (2015 Refueling Outage (RFO)) were not tested (12 Current Transformers (CTs) - CT testing was not completed due to ersonnel safety concerns, but an Issue Report was not generated. (ii) UAT 141-1 CTs associated with the Differential Relay (2017 RFO) were not tested (12 CTs) due to personnel safety concerns, but an sue Report was not generated. (ii) UAT 141-1 CTs associated with the Differential Relay (2017 RFO) were not tested (12 CTs) due to personnel safety concerns, but an sue Report was not generated. (iii) UAT 141-1 CTs associated with the Differential Relay (2017 RFO) were not tested (12 CTs) due to personnel safety concerns, but an sue Report was not generated.							
			(b) Dresden (Units 2 and 3 deferral. (ii) One instance step omission.	(b) Dresden (Units 2 and 3) (i) Six instances of missed sensing device (CTs) testing associated with auxiliary transformers due to not using a tracking mechanism to reschedule the testing or proce deferral. (ii) One instance of missed sensing device (CT) testing associated with generator protection due to procedure step omission. (iii) One instance of missed DC circuitry trip testing due to procedure step omission.							
			(c) Three Mile Island (Unit October 11, 2019. The shi failure scheme did not inc testing procedures. (The p itself which still allows cur	1) (Exelon Nuclear permanen utdown of this unit mitigates ude the wiring continuity fro purpose of the breaker failure rrent flow.)	ntly shut down Three Mile Island Unit the issue identified at Three Mile Islar om one output breaker's failure lockou e scheme is to trip all surrounding brea	1 on September 20, 2019 and removed t nd Unit 1.) (i) Testing of the DC circuit pa at contacts to the primary and back-up tr akers should a breaker fail to open due to	that unit from the NERC oths for the main generation rip coils of the other out o a fault somewhere in t	Registration for Exelo for output breakers' (put breaker due to ur he system or due to a	on Nuclear (NCR00778) on (GB1-02 and GB1-12) nclear and ineffective a fault with the breaker		
			(d) LaSalle Station (Units 1 procedure step. (iii) Misse protective relays due to a	L and 2) (i) Two instances whe d sensing device testing on fo n omission of a procedure ste	ere relays were not functionally tested our Main Power Transformer (MPTs) h ep.	l due to an omission of a procedure step nigh voltage neutral CTs and CTs providin	. (ii) Four instances of m ng input to Auxiliary Tran	issed DC circuity testi Isformers (SAT and U	ing due to an omission of a AT) differential current		
			(e) Oyster Creek (Exelon N shutdown of this unit miti the maintenance activity (Juclear permanently shut dov gates the issue identified at (due to unclear and ineffective	wn Oyster Creek on September 17, 201 Oyster Creek.) (i) One protective relay e testing procedures. The protective fu	18 and removed that unit from NERC Reg function of the Digital Protective Relay S unction is the Accidental Energization (50	gistration for Exelon Nuc System "A" (DPRS-A) was DAE) microprocessor pro	lear (NCR00778) on N not specifically teste tective relay.	November 16, 2018. The ed during performance of		
			(f) Limerick Generation Sta activity prior to 2014 (Unit 2) no records could be ide	ation (Units 1 and 2) (i) Powe t 1) and 2015 (Unit 2) due to entified clearly documenting t	r load unbalance relays 86-RLY-386-PL unclear and ineffective testing proced that these power load unbalance relay	.UA and 86-RLY-386-PLUB for both units ures. The Limerick review identified that s picked up at appropriate electrical inpu	were not specifically tes t prior to a modification ut levels.	ted during performat being installed in 201	nce of the maintenance .4 (Unit 1) and 2015 (Unit		

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RFC2018019546	PRC-005-1.1b	R2; 2.1	High	Lower	1/1/2015 (the date Exelon Nuclear missed its first required maintenance and testing activity)	12/18/2019 (Mitigation Plan completion)	Self-Report	12/18/2019	4/15/2020			
			RF determined that this v devices to be complicated cause of this violation. Ex- completed and document	RF determined that this violation involves the management practices of work management and verification. RF considers Exelon Nuclear's work procedures for maintaining and testing Protection System devices to be complicated and finds that these complicated work procedures led to missed or overdue maintenance and testing. RF identified those complicated and unclear work procedures as the root cause of this violation. Exelon Nuclear also did not have an effective verification control in place to ensure that all maintenance and testing for Protection System devices was timely and properly completed and documented.								
Risk AssessmentThis violation posed a moderate risk and did not pose a serious or substantial risk to the reliability of the bulk power system (BPS) based on the following factors. The risk posed by this violation timely maintaining and testing Protection System devices could negatively impact the BPS by, for example, causing the unit to trip. The risk is not minimal because of the long multiyear duration violation and Exelon Nuclear's compliance history with PRC-005, addressed below. For each of the station's instances identified, an evaluation of the potential risk of impact to the BPS was pro- Exelon Nuclear timely completed all relay calibrations and associated sensing device testing for the above listed relays per its PRC-005-1.1b program. Lastly, during the violation, there were not transformer faults or fault conditions on any associated wiring that would have challenged the function of the differential circuit.									by this violation is that not Itiyear duration of this ne BPS was provided. there were no internal			
Mitigation			Exelon Nuclear remediate testing approach based of To prevent recurrence, Ex	ed all of the instances describ n individual Unit refueling ou kelon Nuclear performed the	ed above in (a) through (f) by completin tage schedules. following actions:	g all required testing for all instances o	of missed testing identifi	ed by the extent of co	ondition through a phased			
 1) conducted a two-day workshop with each station to present lessons learned and provide instructions to the stations on how to perform 100% review activities in a consistent man 2) conducted a management briefing and engagement presentation; 3) completed a 100% review of PRC-005 activities for protective relays, sensing devices, DC circuity, and communication systems across the fleet including reporting to RF any instance compliance identified. (Exelon Nuclear performed an extensive review across its fleet that includes 100% review of the implementing documents that identify the maintenance activit required under PRC-005 (all versions). The review also included 100% verification of the last two completed maintenance activity records to ensure all components under the scope of and activities completed in accordance with the applicable PRC-005 maintenance and testing program (PRC-005.1.1b and/or PRC-005-2/6). These reviews included an independent 1' separate individual. In addition, Exelon Nuclear is implementing proactive quarterly reporting. The actions associated with 100% verification of scope and implementing documents to reporting will reduce the probability of any further violations of PRC-005-1.1b or PRC-005-6 in the future. For each of the instances associated with missed testing of Sensing Circuits, requirements of PRC-005-6 Table 1-3 will supersede the PRC-005-1.1b testing at issue (e.g., lamping) and therefore reduces the likelihood of a repeat violation.); 4) generated tracking items for fleet-wide Engineering NERC reporting to include verification and status of PRC-005 maintenance and testing activities for protective relays, sensing devices, and status of PRC-005 maintenance and testing activities for protective relays, sensing devices, and activities of PRC-005-6 Table 1-3 will supersed the PRC-005 for include verification and status of PRC-005 maintenance and testing activities for protective relays, sensing devices is protective relays. 							nanner; cances of potential non- ctivities for the testing pe of PRC-005 were tested nt 100% verification by a its together with proactive uits, performing the ng devices, DC circuity and					
Other Factors			RF considered that Exelor	RF considered that Exelon Nuclear self-reported this violation and awarded some mitigating credit for self-reporting.								
			RF reviewed the entity's internal compliance program (ICP) and considered it to be a neutral factor in the penalty determination. RF considered Exelon Nuclear's compliance history and determined there is a prior relevant instance of noncompliance in RF and RF considered that prior noncompliance to be an aggravating factor in the penalty determination. As a non-monetary sanction. BeliabilityEirst and NPCC will conduct a spot check of Exelon Nuclear in the summer of 2021 to evaluate Exelon Nuclear's ongoing compliance with PRC-005-6 R2									

NERC Violation ID	Reliability Standard	Req.	Violation Risk Factor	Violation Severity Level	Violation Start Date	Violation End Date	Method of Discovery	Mitigation Completion Date	Date Regional Entity Verified Completion of Mitigation				
WECC2017017872	COM-002-4	R5	High	Moderate	12/8/2016 (when PGE did not confirm the receiver's response nor repeat the Operating Instruction, related to five calls during an EEA)	12/8/2016 (when the EEA ended)	Self-Report	6/15/2017	8/2/2018				
Description of the Viola	tion (For purpos	es of this	On June 29, 2017, PGE su	n June 29, 2017, PGE submitted Self-Reports stating, as Balancing Authority (BA), it was in violation of COM-002-4 R5.									
document, each violatio	on at issue is des	cribed as a											
"violation," regardless of whether it was a possib violation.)	of its procedural le, alleged, or co	posture and nfirmed	On December 8, 2016, or PGE had insufficient gene then obtained assistance party, person-to-person 0 a. On December 8, 1 repeat the Opera b. At 4:21 PM the sa possible. The plan c. At 4:50 PM, when did not repeat th d. At 4:51 PM, when plant's output. Th e. During another co Operator. The plan The root cause of the issu communications. This issu	ne of PGE's generation Facilit eration to maintain its reserv from its neighboring entitie Operating Instructions before 2016 at 3:45 PM, PGE's BA C ting Instruction, and the BA ame day, the BA Operator con- th Operator did not repeat the n the BA Operator contacted e Operating Instruction, and n the BA Operator contacted not the BA Operator contacted not the BA Operator contacted all also at 4:51 PM, the BA O ant Operator did not repeat all also at 4:51 PM, the BA O ant Operator did not repeat uses associated with COM-002 ue began on December 8, 20 the EEA ended.	ties tripped off line, losing approximat yes and requested an Energy Emergen s and was able to recover its reserves. e, during and after the time of the EEA Operator contacted one of its generati Operator did not request that he do so ontacted another generation facility and he Operating Instruction, and the BA O d the generation facility that had tripped the BA Operator did not request that d another generating facility and issues the Operating Instruction, but the BA Operator contacted another generation the Operating Instruction, and the BA Operator contacted another generation the Operating Instruction, and the BA Operator contacted another generation the Operating Instruction, and the BA	rely 180 MW of generation. At 4:33 Pl cy Alert (EEA), which the RC declared At 5:11 PM, the RC removed all EEAs A. It found the following calls were no on facilities and issued an Operating to or reissue the Operating Instruction and requested that the Operator incre Operator did not request that he do s ed offline and issued an Operating Inst the do so or reissue the Operating Inst the do so of the System Operator the Operator S response nor repeat the Operator the Operator S response nor repeat the Operator	M, the BA Operator not at 4:34 PM as an EEA1, s for PGE. Later, PGE ev ot issued or received, per Instruction to set the pl n, as required by COM-0 ase the plant's output l to or reissue the Operat struction to return the struction, as required by the output level of the s correct, as required by cruction to set the plant so or reissue the Operat ators to reinforce the plant rating Instruction, related	ified PGE's Reliability and then escalated t aluated the receiving or the Standard Requi ant at its base rate. T 202-4 R5. evel to the highest ex- ing Instruction, as rec steam turbine to serv y COM-002-4 R5. plant to a level that c c COM-002-4 R5. output to a reasonab ting Instruction, as rec coper method to perf ed to five calls during	Coordinator (RC) that o EEA2 at 4:39 PM. PGE and issuing of oral two- rements: he plant Operator did not tent that was reasonably quired by COM-002-4 R5. ice. The plant Operator ould negatively affect the ole level, according to the equired by COM-002-4 R5. orm three-way an EEA and ended on				
Risk Assessment			This violation posed a mo the receiver's response if as required by COM-002- of generation within PGE However, as compensation showed that no load had and the receivers of the C by the RC to the BA Oper	This violation posed a moderate risk and did not pose a serious and substantial risk to the reliability of the Bulk Power System (BPS). In these instances, PGE failed, on five occasions, to both confirm the receiver's response if the repeated information is correct and repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct as required by COM-002-4 R5. Failure to ensure the Operating Instructions were confirmed and repeated could lead to a misunderstanding of the actions to be performed. Approximately 2,000 M of generation within PGE's BA footprint could have been impacted and further could have impacted the Western Interconnection during the EEA. However, as compensation, PGE participated in a regional reserve sharing group during the EEA that it was able to utilize to receive assistance. In addition, audio recordings between PGE and the showed that no load had been shed during the EEA. Even though the series of communications occurred before and during the EEA, WECC confirmed there was no confusion between the issuers and the receivers of the Operating Instructions, reducing the risk of miscommunications or the carrying out of inappropriate instructions. Furthermore, there were no Operating Instructions issuer by the PC to the BA Operators at PGE									
Mitigation			 To mitigate this violation, PGE: updated its internal procedure to clarify what constitutes an Operating Instruction and the required response. The internal procedure is required to be reviewed and signed at the beginning of every shift; issued a reminder email from PGE's responsible Vice President to remind employees of their obligation to comply with the Standards, which was circulated by the plant operators who were required to review and sign; added a more detailed description of Operating Instructions and three-way communication to the annual NERC Reliability Standards training that all plant operators are required to complete; added a question about proper performance of three-way communication as part of the BA Operator quarterly performance evaluation: 										

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WECC2017017872	COM-002-4	R5	High	Moderate	12/8/2016 (when PGE did not confirm the receiver's response nor repeat the Operating Instruction, related to five calls during an EEA)	12/8/2016 (when the EEA ended)	Self-Report	6/15/2017	8/2/2018		
 5) sent an email to all BA operators asking them to describe what constitutes an Operating Instruction to reaffirm understanding of an Operating Instruction; and 6) implemented a plan to continue spot checking BA Operator recorded phone calls to ensure that proper communication is being used for issuing Operating Instructions. 											
Other Factors			WECC reviewed PGE's inte was not effective in detect	ernal compliance program (ting or preventing multiple	ICP) and considered it to be a neutral f instances of noncompliance with the v	factor in the penalty determination. A violations in this disposition.	Although PGE does have	e a documented ICP,	WECC determined that it		
			WECC considered PGE's co	ompliance history with CON	1-002-4 and determined there were no	o relevant instances of noncomplianc	ce.				
			WECC applied mitigation of violation.	redit in the penalty determ	nination because PGE: (i) was cooperat	tive throughout the enforcement pro	cess, (ii) admitted to the	e violation, and (iii) a	greed to settle the		

NERC Violation ID	Reliability Standard	Req.	Violation Risk Factor	Violation Severity Level	Violation Start Date	Violation End Date	Method of Discovery	Mitigation Completion Date	Date Regional Entity Verified Completion of Mitigation		
WECC2017017873	COM-002-4	R6	High	Moderate	12/8/2016 (when PGE did not confirm the receiver's response nor repeat the Operating Instruction, related to four calls during an EEA)	12/8/2016 (when the EEA ended)	Self-Report	6/15/2017	8/2/2018		
Description of the Violat document, each violatio a "violation," regardless posture and whether it v confirmed violation.)	ion (For purpose n at issue is desc of its procedura was a possible, o	es of this cribed as l or	On June 29, 2017, PGE sub On December 8, 2016, one insufficient generation to n assistance from its neighbo person Operating Instructio a. On December 8, 20 repeat the Operati b. At 4:21 PM the san possible. The plant c. At 4:50 PM, when the repeat the Operati d. During another cal Operator. The plant The root cause of the issue communications. This issue December 8, 2016 when the	 On June 29, 2017, PGE submitted Self-Reports stating, as a Generation Operator (GOP) it was in violation of COM-002-4 R6. On December 8, 2016, one of PGE's generation Facilities tripped off line, losing approximately 180 MW of generation. At 4:33 PM, the BA Operator notified PGE's Reliability Coordinator (RC) that PGE had insufficient generation to maintain its reserves and requested an Energy Emergency Alert (EEA), which the RC declared at 4:34 PM as an EEA1, and then escalated to EEA2 at 4:39 PM. PGE then obtained assistance from its neighboring entities and was able to recover its reserves. At 5:11 PM, the RC removed all EEAs for PGE. Later, PGE evaluated the receiving and issuing of oral two-party, person-to-person Operating Instructions before, during and after the time of the EEA. It found the following calls were not issued or received, per the Standard Requirements: a. On December 8, 2016 at 3:45 PM, PGE's BA Operator contacted one of its generation facilities and issued an Operating Instruction, as required by COM-002-4 R6. b. At 4:21 PM the same day, the BA Operator contacted another generation facility and requested that the Operating Instruction, as required by COM-002-4 R6. c. At 4:50 PM, when the BA Operator contacted hegeneration facility and tripped offline and issued an Operating Instruction to return the steam turbine to service. The plant Operator did not request that he do so or reissue the Operating Instruction, as required by COM-002-4 R6. d. During another call also at 4:51 PM, the BA Operator contacted another generation facility and issued an Operating Instruction to return the steam turbine to service. The plant Operator did not request that he do so or reissue the Operating Instruction, as required by COM-002-4 R6. d. During another call also at 4:51 PM, the BA Operator contacted another generation facility and issued an Operating Instruction to return the steam turbine to service. The plant Operator did not request that h							
Risk Assessment			This violation posed a mod the repeated information is Failure to ensure the Opera footprint could have been However, as compensation showed that no load had b receivers of the Operating BA Operators at PGE	This violation posed a moderate risk and did not pose a serious and substantial risk to the reliability of the BPS. In these instances, PGE failed, on four occasions, to both confirm the receiver's response if the repeated information is correct and repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct, as required by COM-002-4 R6. Failure to ensure the Operating Instructions were confirmed and repeated could lead to a misunderstanding of the actions to be performed. Approximately 2,000 MW of generation within PGE's BA footprint could have been impacted and further could have impacted the Western Interconnection during the EEA. However, as compensation, PGE participated in a regional reserve sharing group during the EEA that it was able to utilize to receive assistance. In addition, audio recordings between PGE and the RC showed that no load had been shed during the EEA. Even though the series of communications occurred before and during the EEA, WECC confirmed there was no confusion between the issuers and the receivers of the Operating Instructions, reducing the risk of miscommunications or the carrying out of inappropriate instructions. Furthermore, there were no Operating Instructions issued by the RC to the							
Mitigation			 To mitigate this violation, F 1) updated its interna every shift; 2) issued a reminder of required to review 3) added a more deta 4) added a question a 5) sent an email to all 6) implemented a pla 	PGE: Il procedure to clarify what email from PGE's responsibl and sign; iled description of Operatin bout proper performance o BA operators asking them to n to continue spot checking	constitutes an Operating Instruction and e Vice President to remind employees o g Instructions and three-way communic of three-way communication as part of th to describe what constitutes an Operatir g BA Operator recorded phone calls to er	d the required response. The internal p of their obligation to comply with the St cation to the annual NERC Reliability St he BA Operator quarterly performance ng Instruction to reaffirm understandin nsure that proper communication is be	procedure is required to l tandards, which was circ andards training that all e evaluation; ng of an Operating Instru ing used for issuing Ope	be reviewed and sign ulated by the plant o plant operators are r ction; and rating Instructions.	ed at the beginning of perators who were equired to complete;		
Other Factors			WECC reviewed PGE's inter not effective in detecting o	rnal compliance program (IC r preventing multiple instar	CP) and considered it to be a neutral fact nces of noncompliance with the violatior	tor in the penalty determination. Althons in this disposition.	ugh PGE does have a do	cumented ICP, WECC	determined that it was		

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			WECC considered PGE's co WECC applied mitigation cr	mpliance history with COM-(002-4 and determined there were no re ation because PGE: (i) was cooperative	levant instances of noncompliance. throughout the enforcement process,	(ii) admitted to the viola	ation, and (iii) agreed	to settle the violation.

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WECC2017017874	VAR-002-2b	R3	Medium	Severe	12/20/2013 (when PGE did not report the status change of its wind farm DSTATCOM alternative voltage controlling device to its TOP)	2/22/2017 (when PGE provided its TOP with the correct information about the status change of the alternative voltage controlling device)	Self-Report	10/31/2018	3/28/2019		
Description of the Viola document, each violati a "violation," regardles	ation (For purpose on at issue is desc as of its procedura	es of this ribed as l	On June 30, 2017, PGE sub PGE had additional instanc	mitted a Self-Report stating es of noncompliance which	, as a GOP, it was in violation of VAR-002 changed the start date to predate the c	2-4 R3. In addition, during a Complian urrent version of the Standard and the	ce Audit conducted July 1 erefore the violation is of	10, 2017 to July 21, 20 FVAR-002-2b R3.)17, WECC determined		
posture and whether it confirmed violation.)	was a possible, o	or	Per PGE's self-report, on Da indicate a loss of reactive p System Control Center (SC equipment alarms only ind online and providing react	Per PGE's self-report, on December 14, 2016, PGE's wind farm plant technician interpreted several distribution static synchronous compensator (DSTATCOM) equipment alarms at the wind farm to indicate a loss of reactive power capability. Understanding DSTATCOM equipment alarms to be a reportable change of a voltage controlling device, PGE's wind plant technician immediately called PGE's System Control Center (SCC) to report the event. PGE's SCC then notified its Transmission Operator (TOP) that the DSTATCOM was out of service with no expected time of return. However, the DSTATCOM equipment alarms only indicated that individual +/- 1 MVAR inverters were off-line and that the status of the wind farm DSTATCOM alternative voltage controlling device had not changed, remaining online and providing reactive power/voltage support.							
			Later, on January 10, 2017 plant staff could replace ni controlling device because DSTATCOM alternative vol	at 8:29 AM, one of PGE's wi ne individual inverter trays i it assumed that the wind fa tage controlling device on D	ind farm plant technicians contacted its related to the December 14, 2016 DSTA ⁻ arm DSTATCOM alternative voltage cont December 14, 2016.	SCC's Transmission and Distribution (TCOM equipment alarms. However, P rolling device was out of service and t	T&D) dispatcher and requ GE did not notify its TOP hat it had already notifie	uired that three break of the status change d its TOP of the statu:	ters be opened so that the in the alternative voltage s change of the wind farm		
			On January 12, 2017, at 3:3 to service. However, PGE c	32 PM, the plant technician lid not notify its TOP of the v	contacted the SCC's T&D Dispatcher to r wind farm DSTATCOM alternative voltag	request that the breakers be closed to ge controlling device status change.	› return the wind farm DS	STATCOM alternative	voltage controlling device		
			In both instances, PGE did with the correct informatic adequate procedures that further, resulting in PGE no	not notify the TOP of the wi on about the status change of were not well-defined, undo ot notifying its TOP of the alt	nd farm DSTATCOM alternative voltage of the wind farm DSTATCOM alternative erstood, or enforced by management ca ternative voltage controlling device stat	controlling device status change with voltage controlling device on Februar ausing the plant technician to incorrect us change.	in the 30 minutes of such ry 22, 2017. The root caus tly interpret the alternati	n change. However, Pe se of these instances ive voltage controlling	GE's TOP was provided was attributed to less than g device to be offline;		
			The WECC Compliance Auc the wind farm's DSTATCON operability after schedulec insufficient staff training fo	Jit identified 10 additional in A alternative voltage contro J PSS outages at a second pla or reporting the notification	Istances between December 30, 2013 an Iling device within the required timefrar ant on October 27, 2015 and at a third p s to its TOP.	nd October 19, 2015 for which PGE wa me. PGE was unable to show that it ha plant on January 28, 2014 and Februar	as unable to document th ad notified its TOP of the y 12, 2015. The root caus	nat it had notified its ⁻ restoration of power se for these instances	OP of changes in status of system stabilizer (PSS) of noncompliance was		
			For Plant 1: seven of the 10 instances, the TOP was not in the TOP not including th) instances identified at the t notified of the status of the le correct status of the volta	WECC Compliance Audit were associate e DSTATCOM. In seven of the 10 instanc age controlling device for this generating	ed with the DSTATCOM of a wind gene res, the TOP was not notified of the DS g facility in its Operating Plan and Real-	Prating facility with a nam TATCOM being returned -Time Assessment.	neplate capacity rating to service. This could	र of 518 MVA. In these have reasonably resulted		
			For Plant 2: one of the 10 i generating units. In this ins unit in its Operating Plan a	nstances identified at the W stance, the TOP was not not nd Real-Time Assessment.	/ECC Compliance Audit were associated ified of the restoration of a PSS at this fa	with a PSS at a hydro generating facili acility. This could have reasonably resu	ity with a nameplate capa ulted in the TOP not inclu	acity rating 108 MVA. Iding the correct PSS s	This facility has three status for the generating		
			For Plant 3: two of the 10 i generating units. In this ins unit in its Operating Plan a	nstances identified at the W stance the TOP was not notion and Real-Time Assessment.	/ECC Compliance Audit were associated fied of the restoration of a PSS at this fa	with a PSS at a hydro generating facili cility. This could have reasonably resu	ity with a nameplate capa Ilted in the TOP not includ	acity rating of 413 M\ ding the correct PSS s	'A. This facility has three tatus for the generating		
			These instances began on I when PGE provided its TOI	December 20, 2013, when P P with the correct informatic	'GE did not report the status change of i' on about the status change of the altern	ts wind farm DSTATCOM alternative v ative voltage controlling device, for a	oltage controlling device total of 12 instances ove	to its TOP, and ender r 1,161 days of nonco	d on February 22, 2017, Impliance.		

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Risk Assessment			This violation posed a minimal risk and did not pose a serious and substantial risk to the reliability of the BPS. In these instances, PGE failed to notify its associated TOP 12 times of a status change on voltage controlling device within 30 minutes of the change, as required by VAR-002-4 R3. As compensation, there was no expected loss of generation, load, or transmission elements, for a failure to report the status of the voltage controlling device. Additionally, none of the 12 instances occurred simultaneously. For all three affected plants, a majority of the 12 instances were for failing to notify the TOP of the PSS or voltage control device being put back into service. This fact reduces the impact of potential harm because the device was back in service and operating as expected instead of a more serious condition, such as the TOP not being aware that the device was out of service and would therefore need to take manual action to compensate for the devices. The inverter trays associated with the DSTATCOM at Plant 1 only resulted in a 1 MVAR loss of reactive power capability. The loss of 1 MVAR of reactive power capability would have had minimal, if any, impact on the BPS. Additionally, for Plants 2 and 3, which had PSS, the generating Facilities were small and located in fairly remote areas, thus reducing the impact they could have had for damping oscillations on the system.								
Mitigation			 To mitigate this violation, F submitted correct automated notifica remote terminal un provided combined revised generating to instruct System delivered operator 	PGE: status information for the A ations of AVR and PSS status nit (RTU) to the SCC Energy d real-time AVR/PSS status i facility compliance procedu Operators to notify plant op training on the new proces	VR, PSS, or alternative voltage controllin via EMS for certain generating units to Management System (EMS). The EMS al ndication via EMS to the GOP and TOP S ures to reflect that plant operators need perators of any RTU failures and to notify ses to both plant operators and SCC Syst	ng device that interconnect with their the System Control Center (SCC). This arms will alert the System Operators w ystem Control Center for all generatin to notify the SCC of status changes by y the TOP by phone of any reactive pow tem Operators once the revised procee	TOP in real-time via ICCP will allow the AVR/PSS st when there are status chang g units; phone in the event of ar wer status changes in the dures are in place.	for generating units atus points to be tran inges; RTU failure. The SCC e event of an ICCP fail	in the instant violation; nsmitted in real-time via C procedures were revised lure; and		
Other Factors			WECC reviewed PGE's internot effective in detecting of WECC considered PGE's VA	rnal compliance program (IC or preventing multiple instar AR-002 compliance history to redit in the penalty determi	CP) and considered it to be a neutral fact aces of noncompliance with the violation to be an aggravating factor in the penalty nation because PGE: (i) was cooperative	or in the penalty determination. Althons in this disposition. determination and disposition track. throughout the enforcement process,	ugh PGE does have a do (ii) admitted to the viola	cumented ICP, WECC	determined that it was to settle the violation.		