Bonneville Power Administration (BPA) – NCR05032 NOC-2655

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		
WECC2016015841	MOD-029-1a	R2, R2.6	Lower	Lower	5/15/2016 (when BPA did not correctly allocate the TTC for one ATC path)	5/15/2016 (when it corrected the TTC allocation for the ATC path)	Self-Report	8/31/2016	4/4/2017		
Description of the Violation (For purposes of this document, each violation at issue is described as a "violation," regardless of its procedural posture and whether it was a possible, or confirmed violation.)			On June 21, 2016 BPA submitted a Self-Report stating, as a Transmission Operator (TOP), it was in violation of MOD-029-1a R2, R2.6.  Specifically, on May 15, 2016, BPA incorrectly allocated the Total Transmission Capability (TTC) for one Available Transmission Capability (ATC) path when incorporating an outage in the Western Interconnection. BPA had a contractual allocation agreement with another TOP that required the TTC to be shared pro-rata during an outage. However, BPA did not reduce the TTC for the ATC path, but instead took the entire reduction. According to the contractual allocation agreement, the entities were required to reduce pro-rata to account for the outage. BPA corrected the TTC allocation that same day. The root cause of this instance was attributed to the desk-level procedure not addressing governance of the allocation of the shared ownership in the ATC path. This violation began on May 15, 2016 when BPA did not correctly allocate the TTC for one ATC path, and ended on May 15, 2016 when it corrected the TTC allocation for the ATC path for a total of one day of noncompliance.								
Risk Assessment			This violation posed a minimal risk and did not pose a serious and substantial risk to the reliability of the Bulk Power System (BPS). In this instance, BPA failed to use the following process to determine TTC: where multiple ownership of Transmission rights exists on an ATC Path, allocate TTC of that ATC Path in accordance with the contractual agreement made by the multiple owners of that ATC Path, as required by MOD-029-1a R2. In this instance, BPA did not reduce the TTC for the ATC path, instead it took the entire reduction. Such failure is a commercial operational issue and presents a negligible potential harm to the reliability of the BPS.  BPA implemented weak preventative controls to prevent the violation. As a compensation, MOD-029-2a is proposed for retirement due to its focus on commercial operations instead of the potential harm to the reliability of the BPS. In addition, the duration of the violation was one day, thus reducing the risk.								
Mitigation			To mitigate this violation, BPA:  1) allocated the correct TTC; 2) conducted extensive training with staff on properly allocating TTCs in outage conditions across the ATC paths; 3) MOD-029-2a is proposed for retirement by NERC due to its emphasis on contractual agreements and minimal effects to reliability of the BPS; 4) tested different ways that real-time Schedulers can access the screens where outage ownership is allocated to ensure that system functionality worked properly in all cases. BPA indicated no responses that indicated the Schedulers accessed the screens differently than the tests revealed; 5) tested systems to ensure that functionality to update ownership shares is working correctly based on how the outage ownership screen can be accessed; 6) clarified its desk-level procedure that covers governing the allocation of the shared ownership ATC path and addresses the identified process gap; and 7) required Real-Time staff to review the revised desk-level procedure and sign the sheet indicating they have reviewed and understand it.								
Other Factors			WECC reviewed BPA's internal compliance program (ICP) and considered it to be a neutral factor.  On August 22, 2014, in Southwestern Power Administration (SWPA) v. Federal Energy Regulatory Commission (FERC), the United States Court of Appeals for the District of Columbia Circuit unanimously ruled that FERC, and by extension, the North American Electric Reliability Corporation (NERC) and the Regional Entities it oversees, such as WECC, could not impose monetary penalties against federal governmental entities such as SWPA. BPA is a federal governmental entity, and WECC is bound to follow SWPA v. FERC in the resolution of this matter. Therefore, WECC has assessed no monetary penalty for this violation.  WECC considered BPA's MOD-029-1a R2 and MOD-029-2a R2 compliance history to be an aggravating factor in determining the disposition track specifically NERC Violation IDs WECC2015014760, WECC201102885 and WECC2015015334.								

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WECC2018019868	MOD-029-2a	R2, R2.6	Lower	Lower	6/4/2018 (when BPA did not correctly allocate the TTC for one ATC path)	6/4/2018 (when BPA corrected the TTC allocation for the ATC path)	Self-Report	7/11/2018	4/4/2019		
Description of the Viola document, each violation a "violation," regardless posture and whether it confirmed violation.)	n at issue is desc of its procedura	ribed as I	On June 15, 2018, BPA submitted a Self-Report stating, as a Transmission Operator (TOP), it was in violation of MOD-029-2a R2, R2.6.  Specifically, on June 4, 2018, BPA correctly posted the TTC on one ATC path, but did not correctly allocate between affected Transmission Owners (TOs) while allocating a seasonal limit, as required by its contractual allocation agreement. BPA allocated an additional 16 MW for one entity and 16 MW below the requirement for another entity. Further, there were no curtailments during this time. However, BPA corrected the TTC allocation that same day. The root cause of this instance was attributed to the desk-level procedure not specifying how to allocate the TTC during a seasonal limit. This violation began on June 4, 2018, when BPA did not correctly allocate the TTC for one ATC path, and ended on June 4, 2018, when BPA corrected the TTC allocation for the ATC path for a total of one day of noncompliance.								
Risk Assessment			This violation posed a minimal risk and did not pose a serious and substantial risk to the reliability of the BPS. In this instance, BPA failed to use the following process to determine TTC: where multiple ownership of Transmission rights exists on an ATC Path, allocate TTC of that ATC Path in accordance with the contractual agreement made by the multiple owners of that ATC Path, as required by MOD-029-2a R2. In this instance, BPA correctly posted the TTC on one ATC path, but did not correctly allocate between the TOs while allocating a seasonal limit, as required by its contractual allocation agreement. Such failure is a commercial operational issue, and presents a negligible potential harm to the reliability of the BPS.  BPA implemented weak preventative controls to prevent the violation. However, BPA implemented strong detective controls; specifically, it implemented a process for conducting next day capacity checks that detected the instance on June 4, 2018 with MOD-029-2a R2. As compensation, MOD-029-2a is proposed for retirement due to its focus on commercial operations instead of the potential harm to the reliability of the BPS. In addition, the duration of each of the violation was one day, thus reducing the risk.								
Mitigation			To mitigate this violation, BPA:  1) allocated the correct TTC;  2) MOD-029-2a is proposed for retirement by NERC due to its emphasis on contractual agreements and minimal affects to reliability of the BPS;  3) reinforced the training on the proper allocation for seasonal ratings; and  4) clarified the desk-level procedure to make the allocation of seasonal ratings across this path clearer and provided training on the update desk-level procedure to the Real-time schedulers.								
Other Factors			WECC reviewed BPA's internal compliance program (ICP) and considered it to be a neutral factor.  On August 22, 2014, in Southwestern Power Administration (SWPA) v. Federal Energy Regulatory Commission (FERC), the United States Court of Appeals for the District of Columbia Circuit unanimously ruled that FERC, and by extension, the North American Electric Reliability Corporation (NERC) and the Regional Entities it oversees, such as WECC, could not impose monetary penalties against federal governmental entities such as SWPA. BPA is a federal governmental entity, and WECC is bound to follow SWPA v. FERC in the resolution of this matter. Therefore, WECC has assessed no monetary penalty for this violation.  WECC considered BPA's MOD-029-1a R2 and MOD-029-2a R2 compliance history to be an aggravating factor in determining the disposition track specifically NERC Violation IDs WECC2015014760, WECC201102885 and WECC2015015334.								

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
WECC2016015730	MOD-029-1a	R3	Lower	Severe	3/27/2016 (when BPA did not establish the correct SOL for the ATC path)  4/2/2016 (when BPA did not establish the correct SOL for the ATC path)  4/8/2016 (when BPA did not establish the correct SOL for the ATC transmission path)	9/6/2016 (when BPA corrected its calculation for TRM for SOLs between 2000 MW and 2500 MW)	Self-Report	10/30/2018	3/7/2019
Description of the Viola	ition (For purpose	s of this	On May 6, 2016, BPA subr	nitted a Self-Report stating, a	s a Transmission Operator, it was in vio	ation of MOD-029-1a R3.			

document, each violation at issue is described as a "violation," regardless of its procedural posture and whether it was a possible, or confirmed violation.)

Specifically, on February 3, 2016, BPA implemented a 450 MW Transmission Reliability Margin (TRM) for one Available Transfer Capability (ATC) transmission path to account for uncertainties arising from simultaneous path interactions when the System Operating Limit (SOL) across the ATC transmission path is above 2,000 MW. TRM is the amount of transmission transfer capability needed to account for the inherent uncertainty in system conditions and the need for operating flexibility to ensure reliable system operation as system conditions change. However, on three occasions, BPA set its TTC lower than the lowest provided SOL for the ATC transmission path for the implementation of the TRM. Effectively, this resulted in BPA not having a correct TRM methodology for calculating TRMs for 2,000 -2,500 MW. The details of each occurrence are explained below.

On March 27, 2016, BPA's SOL for the ATC transmission path was 2,500 MW for all hours. However, the joint owner for the ATC transmission path showed an SOL of 2,200 MW for one transmission line and 2,300 MW for another transmission line. BPA did not have a process to establish a TRM for the SOLs of 2,200 MW or 2,300 MW and yet it posted an SOL of 2,000 MW without TRM for all hours. Such failure could potentially delay the system restoration time of the neighboring entity or require the neighboring entity to shed load for a contingency. This instance of the violation occurred on March 27, 2016, when BPA did not establish the correct SOL for the ATC path, and ended on September 6, 2016, when BPA corrected its calculation for TRM for SOLs between 2000 MW and 2500 MW, for a total of 164 days of noncompliance.

On April 2, 2016, for the ATC transmission path mentioned previously, BPA's SOL was 2,500 MW and again the joint owner's SOL was 2,300 MW. Since BPA did not have a process for calculating TRM for an SOL of 2,300 MW, BPA posted an SOL of 2,000 MW for all hours. Such failure could potentially delay the system restoration time of the neighboring entity or require the neighboring entity to shed load for a contingency. This instance of the violation occurred on April 2, 2016, when BPA did not establish the correct SOL for the ATC path, and was remediated on September 6, 2016, when BPA corrected its calculation for TRM for SOLs between 2000 MW and 2500 MW, for a total of 158 days of noncompliance.

On April 8, 2016, at 4:14 PM, BPA received an increase to the SOL from 2,000 MW to 2,500 MW, from the joint owner of the ATC transmission path. BPA managed the transmission path scheduling every 15 minutes. However, BPA did not update the SOL for the two transmission lines, as was required, for the next scheduling increment; but instead only updated the SOL for one transmission line. BPA made this choice because its system functionality had restrictions that did not allow for it to make TRM updates in 15-minute increments, with the 2,500 MW SOL. This instance of the violation occurred on April 8, 2016, when BPA did not establish the correct SOL for the ATC transmission path, and ended on September 6, 2016, when BPA corrected its calculation for TRM for SOLs between 2000 MW and 2500 MW, for a total of 152 days of noncompliance.

The root cause was attributed gaps in the BPA's process for calculating the correct TRM methodology for 2,000 - 2,500 MW, so BPA set its TTC lower than the lowest provided SOL for the ATC transmission path for the implementation of the TRM.

## **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, BPA failed to establish the TTC at the lesser of the value calculated in R2 or any SOL for its ATC Path, as described above, pursuant to MOD-029-1a R3. Such failure is a commercial operational issue, rather than a risk to the reliability of the BPS. MOD-029-1a R3 was retired March 31, 2017.

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		
WECC2016015730	MOD-029-1a	R3	Lower	Severe	3/27/2016 (when BPA did not establish the correct SOL for the ATC path)  4/2/2016 (when BPA did not establish the correct SOL for the ATC path)  4/8/2016 (when BPA did not establish the correct SOL for the ATC transmission path)	9/6/2016 (when BPA corrected its calculation for TRM for SOLs between 2000 MW and 2500 MW)	Self-Report	10/30/2018	3/7/2019		
			lessening the risk to the BI	PS. Specifically, the operation	ove noncompliance. However, BPA had an scheduling lead identified the noncong, which reduces risk of overloading the	npliance, during a compliance review.	Further, as compensatio	n, BPA posted a lowe	* * * * * * * * * * * * * * * * * * * *		
Mitigation			To mitigate this violation,	BPA:							
			implemented a process that allowed the correct TTC for the ATC Path with a TRM for SOLs falling between 2,000 MW and 2,500 MW; modified the NI SCADA screen to help prevent future user error; sent an email reminder to Dispatch staff, reviewing the procedure for sending updated SOL's to Schedule; completed functionality requirements to automate the TRM entry that is required to submit requirements to vendor; reviewed system change order from vendor that incorporates the requirements and made any needed adjustments; implemented functionality to production environment; adjusted processes to account for the new functionality; trained staff on the new functionality and processes; and MOD-029-1a was retired March 31, 2017, and the successor requirement is proposed for retirement.								
Other Factors			WECC reviewed BPA's internal compliance program (ICP) and considered it to be a neutral factor.  On August 22, 2014, in Southwestern Power Administration (SWPA) v. Federal Energy Regulatory Commission (FERC), the United States Court of Appeals for the District of Columbia Circuit unanimously ruled that FERC, and by extension, the North American Electric Reliability Corporation (NERC) and the Regional Entities it oversees, such as WECC, could not impose monetary penalties against federal governmental entities such as SWPA. BPA is a federal governmental entity, and WECC is bound to follow SWPA v. FERC in the resolution of this matter. Therefore, WECC has assessed no monetary penalty for this violation.								
			WECC considered BPA's M	IOD-029-1a compliance histo	ry to be an aggravating factor in determ	nining the disposition track specifically	NERC Violation IDs WEC	C2011008668 and W	ECC2013011728.		

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WECC2016016711	PRC-005-2(i)	R3	High	Lower	10/1/2015 (when BPA did not perform the required maintenance tasks for one VLA control battery)	12/20/2016 (when BPA completed the required maintenance tasks for one VLA control battery)	Self-Report	3/16/2017	4/25/2017			
Description of the Viola document, each violatio a "violation," regardless posture and whether it confirmed violation.)	n at issue is desc of its procedura	ribed as I	On December 23, 2016, BPA submitted a Self-Report stating, as a Transmission Owner (TO,) it was in violation of PRC-005-2(i) R3.  Specifically, on December 19, 2016 during evidence gathering for a Self-Certification, BPA found one Vented Lead-Acid (VLA) control battery at one substation that was not inspected for unintentional grounds, per Table 1-4(a) of the Standard and Requirement. The required unintentional grounds inspections were not recorded for two reasons: first, BPA incorrectly thought that because the VLA control battery did not have automated ground detection equipment, the maintenance activities were not required; second, in July 2015, BPA had assessed that the substation subject to this violation did not support the BES elements, and therefore, the VLA control battery was not subject to the requirements of the Standard. However, in December 2016, BPA corrected its assumption because the VLA control battery at the substation supported distributed Under Frequency Load Shedding (UFLS), which qualified the VLA control battery as a BES element and subject to the requirements of PRC-005. As a result, BPA found one VLA control battery that did not have the required maintenance activities as far back as October 1, 2015 for its required four-month calendar intervals. This violation began on October 1, 2015, when BPA did not perform the required maintenance tasks for one VLA control battery, for a total of 447 days of noncompliance.  The root cause of this violation was attributed to BPA's incorrect assumption regarding the requirements for Bulk Electric System (BES) elements, for one of its substations as well as an incorrect									
Risk Assessment			This violation posed a minimal risk and did not pose a serious and substantial risk to the reliability of the BPS. In this instance, BPA failed to maintain its Protection System Components that are included within the time-based maintenance program, for one VLA control battery in accordance with maximum maintenance intervals prescribed within Table 1-4(a) of PRC-005-2(i) R3.  However, as a compensating measure, the VLA control battery subject to this violation did not require any settings changes, once the inspections were completed., In addition, BPA's substation operations group performed monthly inspections on all control batteries. Even though the maintenance was not performed, the battery had been inspected, thus reducing the potential harm to the BPS.									
Mitigation			To mitigate this violation, BPA:  1) completed VLA control battery device inspection/maintenance;  2) confirmed the application of applicable inspection forms for all control batteries subject to the Standard;  3) reviewed and documented locations that support UFLS, utilizing the BES definition and confirmed that all control batteries at those locations were correctly identified;  4) reviewed and documented alignment of the "yes" BES Cascade indicator and PRC-005 subject equipment to ensure the applicable Control Batteries were marked;  5) updated Operations Inspection Standard language to clarify that locations with automated ground detection to alert staff that they will have manual readings completed until automated panels are installed;  6) updated substation maintenance control battery Subject Matter Expert document to outline feasibility of installing ground detection equipment at applicable locations; and added the missing VLA control battery to the work management system as well as the voltage readings added to the other monthly readings.									
Other Factors			WECC reviewed BPA's internal compliance program (ICP) and considered it to be a neutral factor.  On August 22, 2014, in Southwestern Power Administration (SWPA) v. Federal Energy Regulatory Commission (FERC), the United States Court of Appeals for the District of Columbia Circuit unanimously ruled that FERC, and by extension, the North American Electric Reliability Corporation (NERC) and the Regional Entities it oversees, such as WECC, could not impose monetary penalties against federal governmental entities such as SWPA. BPA is a federal governmental entity, and WECC is bound to follow SWPA v. FERC in the resolution of this matter. Therefore, WECC has assessed no monetary penalty for this violation.  WECC considered BPA's PRC-005-2(i) R3 compliance history to be an aggravating factor in determining the disposition track specifically NERC Violation IDs WECC2015015392, WECC2016016710, WECC201103045 and WECC2013012135.									

FirstLight Hydro Generating Company - NCR10049 NOC – 2659 \$0

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				
NPCC2019021852	FAC-008-1	R1., R1.3	Lower	Moderate	08/23/2007	07/11/2019	Self-Report	09/04/2019	09/19/2019				
Description of the Noncompliance (Fo purposes of this doceach noncompliance is described as a "noncompliance," rof its procedural powhether it was a poconfirmed violation	e at issue egardless sture and essible, or	Rating documentation cables, cable jumpers was to determine ame computer software and ampacity ratings were completed in July 200 was the only facility in transition; the aluminal rubular bus section.	received from the Entity, NPCC has determined that FAC-008-1 R1 is more appropriate for processing this violation. During a periodic internal compliance review of the Cabot generating station Facility Rating documentation, the Entity hired an outside consultant to undertake a comprehensive evaluation of the ampacity rating methodology utilized for various transition equipment (e.g. short sections of cables, cable jumpers) in service from the collector bus up to the low side terminals of the main generator step-up transformer (GSU) at the Point of Interconnection (POI). The purpose of this assessment was to determine ampacity ratings using methods consistent with industry standards recommended by the standard/requirement (e.g. IEEE) with the aid of the Electrical Transient Analyzer Program (ETAP) computer software as opposed to the previous method of simply adopting the Original Equipment Manufacturer's (OEM) specifications and ratings. By implementing this improved methodology, new ampacity ratings were calculated for several components that had been designed and installed between 2001 and 2006, when the plant was owned by the local Transmission Owner (TO). The assessment, completed in July 2019, determined that the corrected ratings for a number of these components limit the Cabot generating station's rated capacity. The Entity determined that the Cabot generating station was the only facility impacted and the following elements were determined to be undersized: the cable spacing from the Switchgear through rooftop conduit penetration; the rooftop rectangular bar transition; the aluminum conductor steel-reinforced cable (ACSR) overhead conductors; the ACSR transition conductors to substation tubular bus; the open air tubular bus sections; and the transition from air tubular bus section to Transformer LV bushing.  NPCC determined the cause of the violation was a failure to detect the errors in the facility rating sheet. The contributing cause was that the station upgrade, new components were installed that have										
		NPCC determined that this violation spans two versions of the Reliability Standard, as follows:  FAC-008-1 R1, from August 23, 2007, when the Entity registered as a GO for the Cabot generating station until December 31, 2012 (the standard's retirement date); and  FAC-008-3 R1, from January 1, 2013 to July 11, 2019, when the Entity reduced the Cabot generating station maximum output by approximately 21.5 MVA to prevent overloading limiting electrical equipment.  NPCC further determined that, for purposes of this violation, there was no substantive change in the Entity's compliance obligations under the two applicable Standard Requirements.											
Risk Assessment		Failure to install elect generator's output of Entity's host TO at a 2 Entity reduced its out monitored via its SCA been exceeded 24 per have been determined Reserves and has been	apacity. The Entity's Cabot ge 115 kV substation. On July 11 tput at the POI to 56 MVA and ADA system for real time oper ercent of the time with a max and to have lower ampacity rat	enerator's terminals and its onerating station is a convention, 2019, after notifying its Reliad or/44.5 MW, the maximum ating data, alerts, alarms and imum value of 69.54 MVA. He ings than previously calculate	GSU with adequate onal six-unit hydro-ability Coordinator power output allow I trips. Historical dapwever, the aforemed. The Cabot gene	ampacity ratings that are electric generating facility (RC), ISO-NE, that several wed by the most limiting parts from June 1, 2016 through the entioned engineering evarating station has a rated	consistent with established in with an aggregate nameplate electrical components limit the state of equipment at the state agh August 7, 2019 show that luation found no evidence of capacity that is approximately by's RC could have adequately	e rating of 77.5 MVA and the Cabot generating state ion. The Cabot generating the current de-rated out thermal stress on those 3% of its RC's 2600 MV	d interconnected to the ion's rated capacity, the ng station is continuously itput capacity of 56 MVA has electrical components that // required Operating				
		No harm is known to	have occurred as a result of	his violation.									
Mitigation		<ul><li>2. revised it</li><li>3. enhance</li><li>a. response</li></ul>	•	ect the corrected ampacity ra anguage requiring: nt, review, and approve any	tings for the aforer changes to Facility	nentioned electrical equip		service at the station;					

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NPCC2019021852	FAC-008-1	R1., R1.3	Lower	Moderate	08/23/2007	07/11/2019	Self-Report	09/04/2019	09/19/2019
Other Factors		NPCC considered the  Although this violatio	entity's compliance history a	rogram (ICP) and considered it and determined there were no e reliability of the BPS, the viola the output of its generator Fa	relevant instances	of noncompliance.  opriate for compliance ex	cception processing. The entit	y's Facility Rating was ir	ncorrect for a significant