FROM THIS PUBLIC VERSION

Attachment 4

Record documents for the violation of CIP-003-3 R6

4.a	The Entity's Self-Report (RFC2017017568);
4.b	The Entity's Mitigation Plan designated as RFCMIT012980 submitted
4.c	The Entity's Certification of Mitigation Plan Completion dated ;
4.d	ReliabilityFirst's Verification of Mitigation Plan Completion dated ;
4.e	The Entity's Self-Report (RFC2017018261);
4.f	The Entity's Mitigation Plan designated as RFCMIT013213-1 submitted
	;
4.g	The Entity's Certification of Mitigation Plan Completion dated ;
4.h	ReliabilityFirst's Verification of Mitigation Plan Completion dated
	;
4.i	The Entity's Self-Report (RFC2017018760);
4.j	The Entity's Mitigation Plan designated as RFCMIT013443 submitted
	;
4.k	The Entity's Certification of Mitigation Plan Completion dated
4.1	ReliabilityFirst's Verification of Mitigation Plan Completion dated

Self Report

Entity Name: NERC ID: Standard: CIP-004-6 Requirement: CIP-004-6 R4. Date Submitted: | Has this violation previously No

Entity Information:

Joint Registration Organization (JRO) ID:

been reported or discovered?:

Coordinated Functional Registration (CFR) ID:

> Contact Name: I Contact Phone: Contact Email: |

Violation:

Changed to November 10, 2016 Violation Start Date: May 08, 2017

End/Expected End Date:

Reliability Functions:

Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and On 11/10/2016 responsible for Cause of Possible Violation: administering access security, assigned 1 and 2 to a supervisor in without following the NERC process that requires an approval from the leader. These grants access to vendor to remote access When vendor need to remote login, group who in turn verifies that vendor calling is authorized user, and assigns the passcode to complete dual authentication. process is an The access control management system which hold the record of authorized appliance is classified as an employees and contractors. access for assets. This unauthorized access was identified on for 3/3/2017 during the process compares authorized access with process. This provisioned access. This provisioning without following process to authorize access violates CIP-004 R4.1. "Process to authorized based on need, as determined by the Responsible Entity, except for CIP Exceptional Circumstances" *Root Cause of Possible Violation:

Then NERC

Self Report

process was not followed. *How was the violation discovered? Violation was identified during the 2017 Q1 to *Timeline: authorization) from November 10, 2016 - received an email (NOT an employee of who is not a formal leader to grant access to 1 and 2 to the supervisor of November 10, 2016 - assigned to an employee without authorization approvals. March 3, 2017 - An internal review of data for CIP004 R4.1 identified the provisioned access without authorization approvals. March 24, 2017 - After completion of process, was notified of Potential Violation. and RCA was conducted. March 31, 2017 -

1 and 2 assigned to the employee were revoked.

Mitigating Activities:

Description of Mitigating The way ownership were changed May 3, 2017. After ownership Activities and Preventative changes the code has disabled status and is no longer useable. Measure: The process will be communicated to every leader with NERC CIP access employees.

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe Actual Impact to BPS: Minimal

Description of Potential and Potential Impact: As per VSL, the potential impact is severe.

Actual Impact to BPS:

Actual Impact: The actual impact to the BES is low.

has experienced no negative impact to its Bulk Electric System assets as a

result of this potential violation.

Risk Assessment of Impact to No actual impact to BES has been noted due to this violation. BPS:

Additional Entity Comments:

	Additional Comments	
From	Comment	User Name
No Comme	nts	

		Additional Documents	
From	Document Name	Description	Size in Bytes
No Docume	nts		

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Self Report

Violation Validated On

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: Mitigation Plan Version: 1

NERC Violation ID Requirement

RFC2017017568 CIP-004-6 R4.

Mitigation Plan Submitted On:

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: July 28, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Entity Information

Identify your organization:	
Entity Name:	
NERC Compliance Registry ID:	
Address:	

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

Violation(s)

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Violation ID	Date of Violation	Requirement
	Requirement Description	
RFC2017017568	05/08/2017	CIP-004-6 R4.
Each Responsible Entity shall implement of	ne or more documented acce	ess management program(s) that collectively

Each Responsible Entity shall implement one or more documented access management program(s) that collectively include each of the applicable requirement parts in CIP-004-6 Table R4 – Access Management Program.

due each of the applicable requirement parts in CIP-004-0 Table N4 - Access Management Program.
Brief summary including the cause of the violation(s) and mechanism in which it was identified:
Brief Description: (What happened?)
On 11/10/2016 I and 2 to a supervisor in process that requires an approval from the leader. These access to the vendor access to remote login, the vendor calls the group who in turn verifies that the vendor calling is authorized user, and assigns the passcode to complete dual authentication.
The process is an access control management system that hold the record of authorized access for employees and contractors. appliance is classified as an EACMS for assets.
This unauthorized access was identified on 3/3/2017, during the 2017 Q1 to process. This process compares authorized access with provisioned access. This provisioning without following process to authorize access violates CIP-004 R4.1. "Process to authorized based on need, as determined by the Responsible Entity, except for CIP Exceptional Circumstances"
Cause: (what caused the violation?)
The NERC process was not followed.
Timeline:
November 10, 2016 - received an email (NOT authorization) from an employee of who is not a formal leader to grant access to assigned to an employee without authorization approvals. March 3, 2017 - An internal review of data for CIP004 R4.1 identified the provisioned access without authorization approvals. March 24, 2017 - After completion of process, was notified of Potential Violation. March 31, 2017 - and RCA was conducted. May 3, 2017 - and RCA was conducted. May 3, 2017 - and RCA was signed to the employee were revoked.
Relevant information regarding the identification of the violation(s):
Violation was identified during the 2017 Q1

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

- 1. Milestone 1 will provide evidence showing access has been revoked for 1 and 2.
- 2. Milestone 2 will show that a disciplinary action has been taken to correct the employee behavior.
- 3. Milestone 3: Update procedures to indicate that the leader must approve reassignment of
- 4. Milestone 4: Update job aid to identify as NERC-CIP asset when assigning to the owner.

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: July 28, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Revoke Access	Evidence showing access has been revoked for 1 and 2.	05/03/2017	05/03/2017		No
Disciplinary Action	Disciplinary Action	06/14/2017	06/14/2017		No
Job aid Update	Update job aid to identify as As NERC-CIP asset when assigning to the owner.	07/28/2017			No
Procedure update	Update procedures to indicate that the leader must approve reassignment of	07/28/2017			No

Additional Relevant Information

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

By implementing the mitigation plan proposed in section D, will minimize similar issues. The disciplinary action is designed to correct the employee's behavior.

Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur

By completion of the mitigation plan will minimize similar issues. The disciplinary action is designed to correct the employee's behavior.

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize.

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO remedial action directives as well as ERO documents, including but not limited to, the NERC rules of procedure and the application NERC CMEP.
- Agrees to be bound by, and comply with, this Mitigation

3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Plan, including the timetable completion date, as accepted by the Regional Entity, NERC, and if required, the applicable governmental authority.

and if required, the applicable governmental authority.
Authorized Individual Signature:
(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)
Authorized Individual
Name:
Title:
Authorized

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:	
NERC Registry ID:	
NERC Violation ID(s): RFC201	7017568
Mitigated Standard Requirement(s): CIP-004	4-6 R4.
Scheduled Completion as per Accepted Mitigation Plan: July 28,	2017
Date Mitigation Plan completed: July 28,	2017

RF Notified of Completion on Date:

Entity Comment:

		Additional Documents	
From	Document Name	Description	Size in Bytes
Entity	RFC2017017568 Certification package.zip		1,382,946

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

ivame:		
Title:		
Email:		
Phone:		
Authoriz	ed Signature	Date

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Mitigation Plan Verification for RFC2017017568

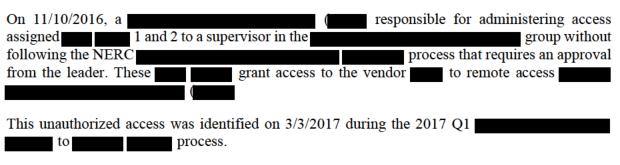
Standard/Requirement: CIP-004-6 R4

NERC Mitigation Plan ID: RFCMIT012980

Method of Disposition: Not yet determined

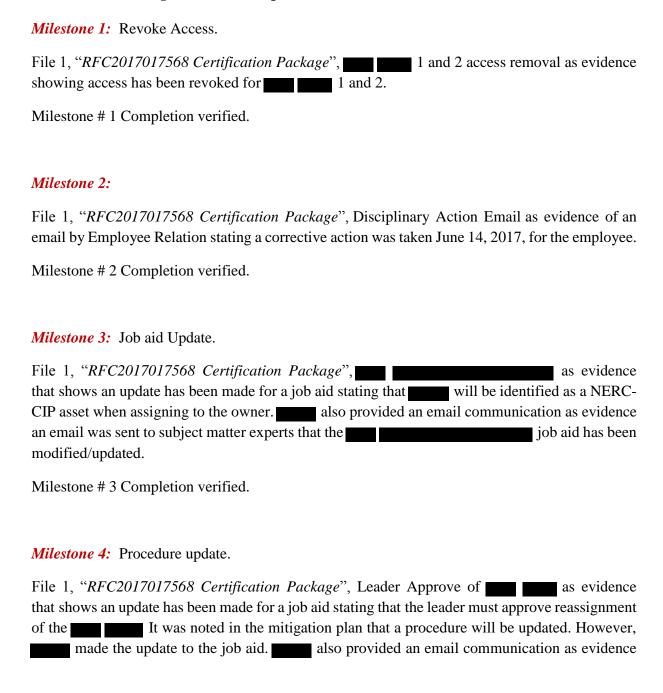
Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report					07/28/17

Description of Issue



Evidence Reviewed			
File Name	Description of Evidence	Standard/Req.	
File 1	RFC2017017568 Certification Package	CIP-004-6 R4	

Verification of Mitigation Plan Completion



an email was sent to subject matter experts that the modified/updated.	e	aid has been
Milestone # 4 Completion verified.		
The Mitigation Plan is hereby verified complete.		
Jony lengar	Date:	

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation

Self Report

Entity Name: NERC ID: Standard: CIP-004-6 Requirement: CIP-004-6 R4. Date Submitted: August 18, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

> Contact Name: I Contact Phone: Contact Email: |

Violation:

Violation Start Date: January 12, 2017

Changed to January 13, 2017

End/Expected End Date:

Reliability Functions:



Is Possible Violation still No

occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other Regions?:

Which Regions:

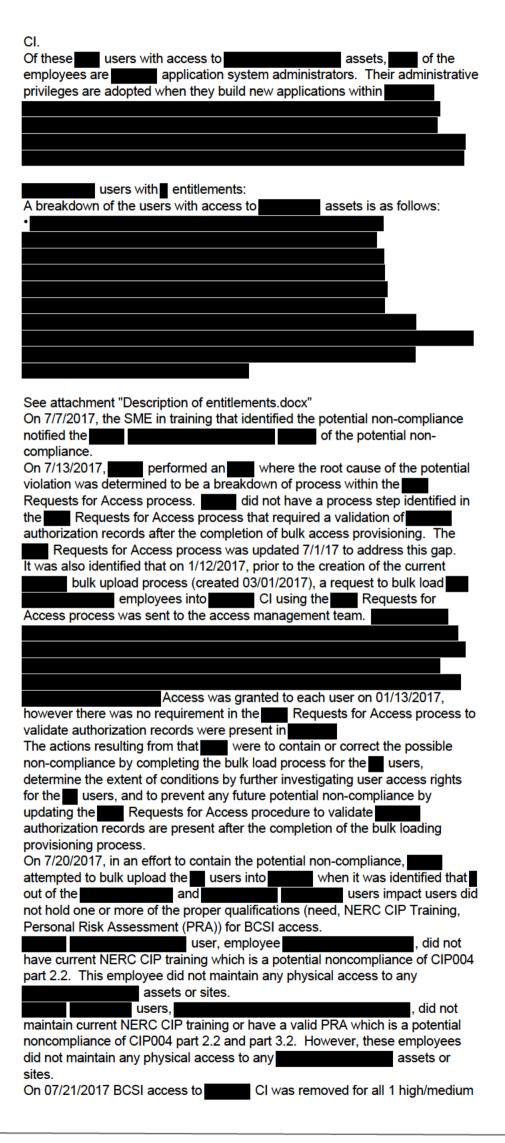
Date Reported to Regions:

Detailed Description and *Detailed Description:

Cause of Possible Violation: On Monday, 06/19/2017, during the Q2 and SME training session of the process it was to identified that users with had access to Configuration Items (NERC-CIP), abbreviated within this document as CI, BES Cyber System Information (BCSI) without a corresponding authorization record, a CIP 004 part 4.4 potential violation, in CI application is an application within the applications that uses to store the BES Cyber System List. the application that holds the authorization records for users with access to NERC CIP assets and BCSI. At least quarterly uses the process to validate that all authorized users have corresponding authorization records in The summary of access privileges at the time were 10 and users with users with The specific breakdown of entitlements was as follows: users: One of the users was an manager had the entitlement NERC, which gives the user administrator privileges to read, write, and delete BCSI information in CI. Nine users had the entitlement, NERC, which gives the user administrator privileges to read, write, and delete BCSI information in

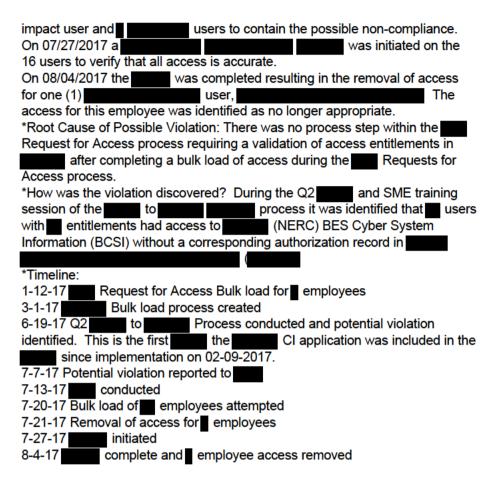
> Page 1 of 4 08/22/2017

Self Report

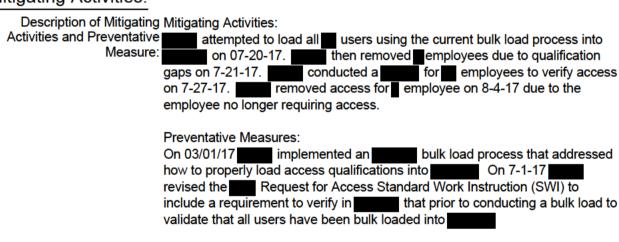


Page 2 of 4 08/22/2017

Self Report



Mitigating Activities:



Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Minimal Actual Impact to BPS: Minimal

Description of Potential and As per the VSL table and the potential impact to the BES is Lower because Actual Impact to BPS: users gained access without the proper qualifications.

The actual impact is low due to compensating controls of the worked as designed to catch any inaccurate access. Additionally, users maintained all qualification required to have access to the BCSI.

Risk Assessment of Impact to The risk of the Impact to the BES is low due to the compensating controls of BPS: the state and the removal of access of the employees without proper

Page 3 of 4 08/22/2017

Self Report

access qualifications and the 1 removal of access for the employee that no longer required access.

Additional Entity Comments:

	Additional Comments		
From	Comment	Comment User Name	
No Comments			

		Additional Documents	
From	Document Name Description Size in Bytes		
Entity	Description of Entitlements.docx	This file contains description of entitlements noted in this violation.	13,052

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Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: RFCMIT013213-1

Mitigation Plan Version: 2

NERC Violation ID Requirement Violation Validated On
RFC2017018261 CIP-004-6 R4.

Mitigation Plan Submitted On: October 17, 2017

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: August 30, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Page 1 of 10 10/17/2017

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:	
Entity Name:	
NERC Compliance Registry ID:	
Address:	

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

October 17, 2017

Violation(s)

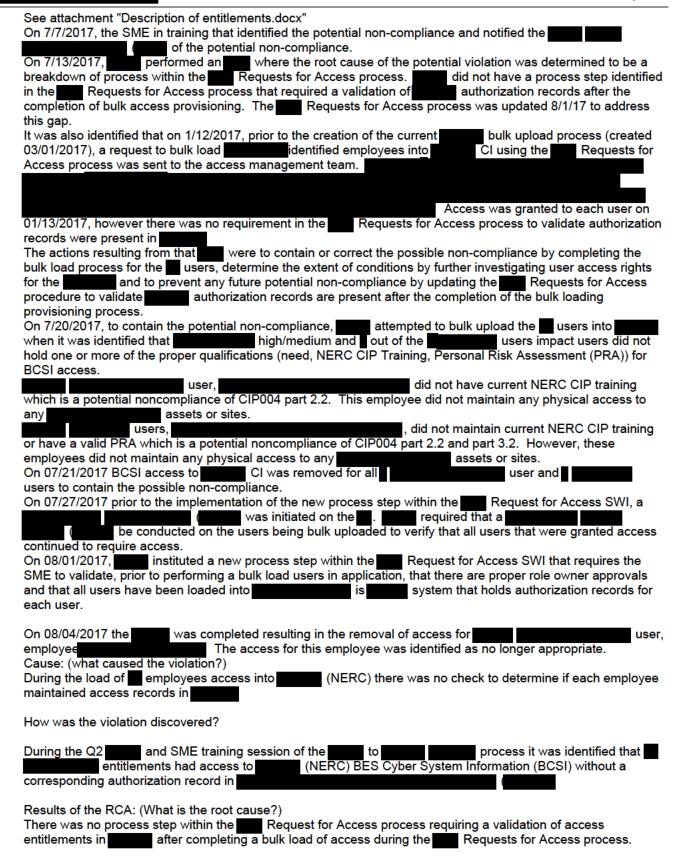
This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Violation ID	Date of Violation	Requirement	
	Requirement Description		
RFC2017018261 01/12/2017 CIP-004-6 R4.			
Each Responsible Entity shall implement one or more documented access management program(s) that collectively include each of the applicable requirement parts in CIP-004-6 Table R4 – Access Management Program.			

Brief summary including the cause of the violation(s) and mechanism in which it was identified:

Processes When loading multiple users into an application uses a bulk loading method. The process requires that first users must be loaded in to the that retains authorization records. Then users are loaded into the application using the request for Access process. This process is used to load user access right into an application. It is also uses a process that is used to verify that any access granted is appropriate access for each user. The process requires each role owner and supervisor to review the access of the users they are responsible for and respond if access is appropriate for the user. If either the role owner or the supervisor believes that the access is no longer appropriate the users access will be removed.
On Monday, 06/19/2017, during the Q2 The CI application is an application within the BES Cyber System List. Is the application that holds the authorization records for users with access to NERC CIP assets and BCSI. At least quarterly uses the all authorized users have corresponding authorization records in The specific breakdown of entitlements was as follows: Users: Authorized Authori
Of these users with access to assets, of the employees are application system administrators. Their administrative privileges are adopted when they build new applications within
users with :

Page 4 of 10 10/17/2017



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NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

October 17, 2017

Relevant information regarding the identification of the violation(s):

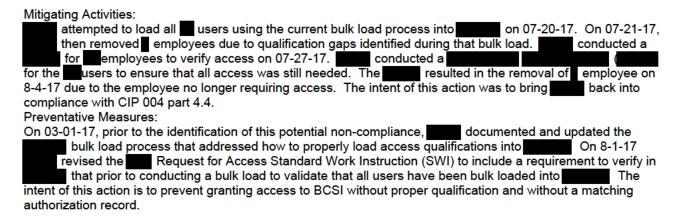
This potential non-compliance was identified by during the Q2 On 03/01/2017, prior to the

identification of this potential non-compliance, documented and updated its process to address process gaps when bulk loading employees access records.

Page 6 of 10 10/17/2017

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:



Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: August 30, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Document bulk load process	Document and update the bulk load process	03/01/2017	03/01/2017		No
90 days check	Purpose of this milestone is a 90 check on the progress of the milestone. No evidence is provided for this milestone.	06/01/2017	06/01/2017		No
Conduct bulk upload into	Conduct bulk upload for users into and identify any users without proper access qualifications	07/20/2017	07/20/2017		No
Remove access	Remove access to employees with	07/21/2017	07/21/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	missing qualification				
Update the Request for access SWI	Update the Request for access SWI to require validation that users are loaded into prior to performing bulk load	08/01/2017	08/01/2017		No
Conduct a of access	for the employees with missing authorization records and remove any inappropriate access	08/30/2017	08/04/2017		No

Additional Relevant Information

ReliabilityFirst

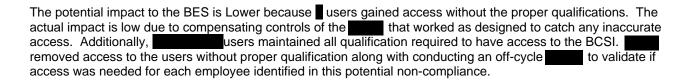
NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

October 17, 2017

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.



Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur

The completion of the Mitigation Plan as outlined and implemented will help to ensure that during user access bulk uploads all users access is provisioned properly and that all users access has a corresponding authorization record.

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

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Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

Authorized Individual Signature:

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Title:

Authorized On: October 17, 2017

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017018261

Mitigated Standard Requirement(s): CIP-004-6 R4.

Scheduled Completion as per Accepted Mitigation Plan: August 30, 2017

Date Mitigation Plan completed: August 04, 2017

RF Notified of Completion on Date: October 27, 2017

Entity Comment:

Additional Documents			
From	Document Name	Description	Size in Bytes
Entity	RFC2017018261 Certification Package.zip	File "RFC2017018261 Certification Package.zip" contains the coversheet and supporting evidence for each milestone.	3,604,426

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:		
Title:		
Email:		
Phone:		
Authorized Signature	Date	
	ffice via CDMS. For Electronic Signature Policy see CMEP.)	

Page 1 of 1 10/27/2017

Mitigation Plan Verification for RFC2017018261

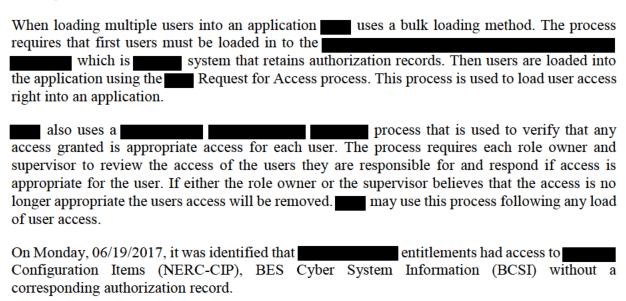
Standard/Requirement: CIP-004-6 R4

NERC Mitigation Plan ID: RFCMIT013213-1

Method of Disposition: Not yet determined

Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report 08/18/17	10/17/17	10/23/17	11/02/17	10/27/17	08/04/17

Description of Issue



Evidence Reviewed			
File Name	Description of Evidence	Standard/Req.	
File 1	RFC2017018261 Certification Package	CIP-004-6 R4	

Verification of Mitigation Plan Completion

Milestone 1: Document bulk load process.

Proposed Completion Date: March 1, 2017

Actual Completion Date: March 1, 2017

File 1, "RFC2017018261 Certification Package", Document bulk upload process-RFC2017018261, Pages 1 through 7, shows the documented procedure for bulk upload and when it is to be used Vs. manual addition to

Milestone # 1 Completion verified

Milestone 2: 90 days check.

Proposed Completion Date: June 1, 2017

Actual Completion Date: June 1, 2017

No evidence required as milestone is filler.

Milestone # 2 Completion verified

Milestone 3: Conduct bulk upload into

Proposed Completion Date: July 20, 2017

Actual Completion Date: July 20, 2017

File 1, "RFC2017018261 Certification Package", Conduct bulk upload process-RFC2017018261, Page 2, illustrates that the subject matter expert responsible for conducting the bulk upload determined that three individuals that were being uploaded did not have proper

credentials to have the provisioned access. After identification, the subject matter expert proposed 2 definitive paths in order to revoke access.

Milestone # 3 Completion verified

Milestone 4: Remove access.

Proposed Completion Date: July 21, 2017

Actual Completion Date: July 21, 2017

File 1, "RFC2017018261 Certification Package", Remove access- RFC2017018261, Pages 1 through 4, shows an email from the subject matter expert with included screen grabs showing that the access had been removed due to the lack of required qualifications.

Milestone # 4 Completion verified

Milestone 5: Update the Request for access SWI.

Proposed Completion Date: August 1, 2017

Actual Completion Date: August 1, 2017

File 1, "RFC2017018261 Certification Package", SWI-Template, Pages 1 through 9, show the updated template (8-1-2017) and the email communication that went out to affected staff per this change of process/ procedure per this milestone.

Milestone # 5 Completion verified

Milestone 6: Conduct a Review of access.

Proposed Completion Date: August 30, 2017

Actual Completion Date: July 21, 2017

File 1, "RFC2017018261 Certification Package", Remove Access-RFC2017018261, Pages 1 through 4, shows the entity SME response to removing access with the users access that needs to be removed.

Milestone # 6 Completion verified

The Mitigation Plan is hereby verified complete.

Date: November 28, 2017

Tony Purgar

Manager, Risk Analysis & Mitigation

ReliabilityFirst Corporation

Self Report

NERC ID: Standard: CIP-004-6
Requirement: CIP-004-6 R4.

Date Submitted: December 01, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: April 01, 2017

End/Expected End Date:

Reliability Functions:



Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and Current Processes

Cause of Possible Violation: User access provisioning and revocation program - This program requires

provisioning of users using a tool called requires a valid NERC training, Personnel Risk Assessment (PRA), and request (Authorization Record) from the supervisor of the employee. This process supports CIP004 R4 Part 4.1

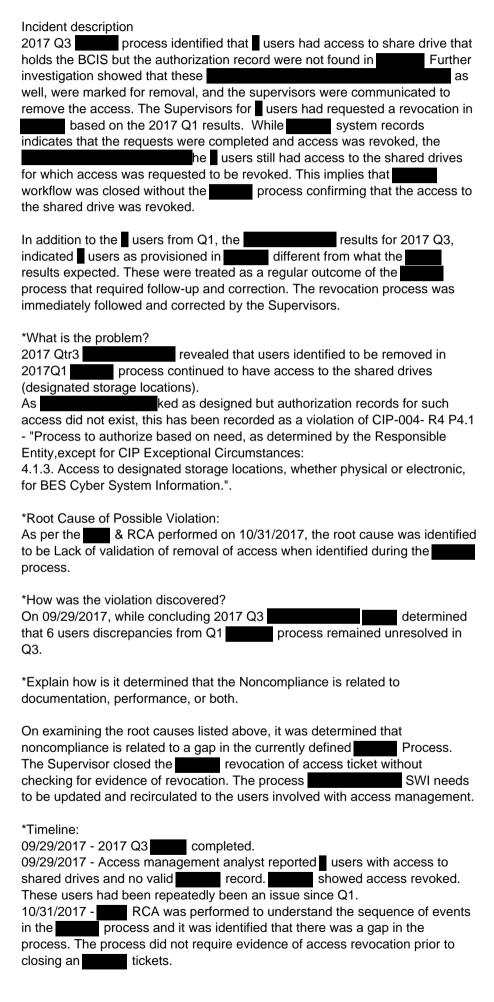
(PAR) - In order to verify that electronic, physical, and BCSI access is appropriate follows a every quarter to determine accuracy of user access of all 'provisioned users in each application' relevant for NERC, SOX and PCI compliance. process works by collecting list of roles/privileges (Data) for each user for each in scope applications, systems, and databases. This data is reviewed by the supervisors and the role owners to determine that the roles/privileges are correct and necessary. This process supports CIP004 R4 Part 4.3 and Part 4.4

Process - In order to verify the	at active electronic access or unescorted
physical access have authorization red	cords, performs another process,
named the process quarterly.	process is to compare
authorization records from wit	h the roles/privileges granted to a user.
process works by obtaining th	e list of authorization records from
list of roles/privileges from	process, and comparing the two in

Page 1 of 3 12/01/2017

Self Report

order to ensure that the individuals with active electronic access or unescorted physical access have authorization records. This process supports CIP004 R4 Part 4.2



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Self Report

Mitigating Activities:

Description of Mitigating Corrective Actions:

Activities and Preventative Access for these users have been revoked since identification of this issue.

Measure:

Mitigating and Preventive measures:

Update the process to include validation of the removal of access.

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe
Actual Impact to BPS: Minimal

Description of Potential and Potential Impact

Actual Impact to BPS: Potential impact of users having access to these could be severe as the share

drive includes the BCSI relevant to process, procedures, and programs.

Actual Impact

The users with access to shared drives that needed to be revoked, were personal who had background clearance and were trained in NERC CIP standards prior to being granted access via The revocation process did not get concluded for these users since the Supervisor closed the ticket to revoke access without evidence.

Risk Assessment of Impact to The risk was measured as low because all of the users with access to the BPS: share drive had a valid PRA and had a valid training record.

Additional Entity Comments:

	Additional Comments	
From	Comment	User Name
No Commer	nts	

		Additional Documents	
From	Document Name	Description	Size in Bytes
No Docume	nts		

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Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code:
Mitigation Plan Version: 1

NERC Violation ID Requirement Violation Validated On RFC2017018760 CIP-004-6 R4.

Mitigation Plan Submitted On: December 14, 2017

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: January 10, 2018

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

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Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:	
Entity Name:	
NEDC Commission of Benjatan ID.	
NERC Compliance Registry ID:	
Address:	

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

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Requirement

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Violation(s)

Violation ID

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Date of Violation

	Requirement Description	
RFC2017018760	04/01/2017	CIP-004-6 R4.
ach Responsible Entity shall implement o clude each of the applicable requirement		ess management program(s) that collectively - Access Management Program.
Brief summary including the cause	of the violation(s) and mecha	nism in which it was identified:
	ation program - This progran	n requires provisioning of users using a tool called requires a valid NERC training, Personnel m the supervisor of the employee. This process
	every qua on' relevant for NERC, ta) for each user for each in s and the role owners to deter	tronic, physical, and BCSI access is appropriate arter to determine accuracy of user access of all compliance. process works by scope applications, systems, and databases. This mine that the roles/privileges are correct and 4.4
authorization records, perform to compare authorization records from by obtaining the list of authorization	ms another process, named to om with the roles/private records from the roles of e that the individuals with act	vileges granted to a user. process works roles/privileges from process, and tive electronic access or unescorted physical
authorization record were not found 2017 Q1 as well, were mark access. The Supervisors for users system records indicates the indicates that the users still had access.	in Further investigated for removal, and the supers had requested a revocation at the requests were complete.	hare drive that holds the BCIS but the stion showed that these users were identified in ervisors were communicated to remove the in special based on the 2017 Q1 results. While ted and access was revoked, the story of the confirming that the access to the shared
In addition to the users from Q1, to different from what the process that required follow-up and by the Supervisors.	results expected. These w	or 2017 Q3, indicated users as provisioned in vere treated as a regular outcome of the rocess was immediately followed and corrected
Cause: (what caused the violation?))	
have access to the shared drives (d	gned but authorization record	

Page 4 of 9 12/14/2017

Results of the RCA: (What is the root cause?)

As per the RCA performed 10/31/2017, the root cause was identified to be Lack of validation of removal of access when identified during the process.

Relevant information regarding the identification of the violation(s):

On 09/29/2017, while concluding 2017 Q3 determined that users discrepancies from Q1 process remained unresolved in Q3.

Page 5 of 9 12/14/2017

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

Milestone 1 - Access for these users to be revoked for the shared drives to correct current access requirements

Access for these users have been revoked since identification of this issue. The Supervisors were contacted and requested to remove access (outside of and monitor that the action was taken, including emailing an evidence to the account management team for each discrepancy resolved.

Milestone 2 - Update the process to include validation of the removal of access
Review and update process process for Access removal request. process will include validation of removal actions. The team that executes quarterly process is team of members. This team has incorporated the validation of removal in current practice (in order to complete Q4 process). However, it will be formalized by end of December.

Milestone 3 - Communicate the process to include validation of the removal of access Communicate the update to the process to the set of Supervisors responsible for managing the access authorizations.

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: January 10, 2018

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
1. Access for these users to be revoked for the shared drives	Contact the Supervisors of all users to revoke access to the shared drive per the results.	11/29/2017	11/29/2017		No
2. Update the process to include validation of the removal of access	Review and update process process for Access removal request. process will include validation of removal actions. The team that executes quarterly process is team of members. This team	01/10/2018			No

December 14, 2017

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	has incorporated the validation of removal in current practice (in order to complete Q4 process). However, it will be formalized by end of December.				
3. Communicate the updated process	Communicate the update to the team responsible for managing the access authorizations.	01/10/2018			No

Additional Relevant Information

ReliabilityFirst

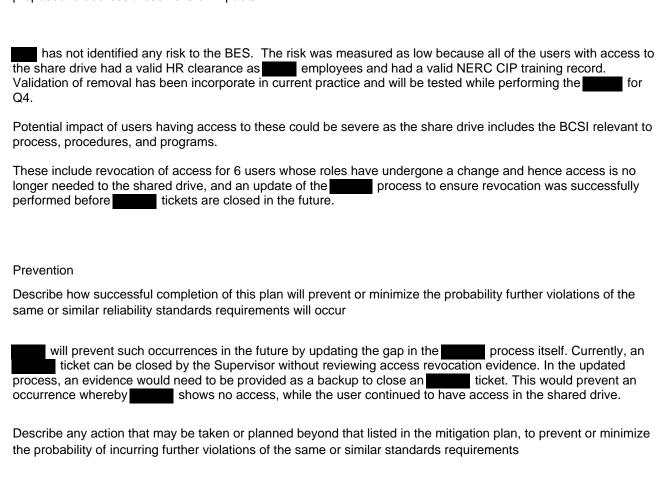
December 14, 2017

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.



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Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Authorized On: December 14, 2017

Authorized Individual Signature:

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017018760

Mitigated Standard Requirement(s): CIP-004-6 R4.
Scheduled Completion as per Accepted Mitigation Plan: January 10, 2018

Date Mitigation Plan completed: January 10, 2018

RF Notified of Completion on Date: January 17, 2018

Entity Comment:

		Additional Documents	
From	Document Name	Description	Size in Bytes
Entity	RFC2017018760 Certification Package.zip	File "RFC2017018760 Certification Package" contains the coversheet for the package. This zip file also contains the supporting data for each milestone.	706,130

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:		
Title:		
Email:		
Phone:		
Authorized Signature	Date	
(Electronic signature was received by the Regional O	ffice via CDMS. For Electronic Signature Policy see CMEP.)

Page 1 of 1 01/17/2018

Mitigation Plan Verification for RFC2017018760

Standard/Requirement: CIP-004-6 R4

NERC Mitigation Plan ID: RFCMIT013443

Method of Disposition: Not yet determined

		Relevan	nt Dates		
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report 12/01/17	12/14/17	01/04/18	01/26/18	01/17/18	01/10/18

Description of Issue

The user access provisioning and revocation program requires provisioning of users using a tool called requires a valid NERC training, Personnel Risk Assessment (PRA), and request (Authorization Record) from the supervisor of the employee.
In order to verify that active electronic access or unescorted physical access have authorization records, performs a performs a process quarterly to compare authorization records from with the roles/privileges granted to a user.
The 2017 third quarter process identified that users had access to a shared drive that holds the BCIS, but the authorization records were not found in showed that these users were identified in 2017 first quarter as well, were marked for removal, and the supervisors were told to remove the access. The Supervisors for users had requested a revocation in based on the 2017 first quarter results. While system records indicate that the requests were completed and access was revoked, the for the third quarter indicates that the users still had access to the shared drives for which access was requested to be revoked. This implies that workflow was closed without the process confirming that the access to the shared drive was revoked.

The root cause was identified to bel of validation of removal of access when identified during the process.

Evidence Reviewed				
File Name Description of Evidence Standard/Re				
File 1	RFC2017018760 Certification Package	CIP-004-6 R4		
File 2	CIP-004-6 R4			
File 3	RFC2017018760 Milestone 2 Additional	CIP-004-6 R4		

Verification of Mitigation Plan Completion

Milestone 1: Access for these users to be revoked for the hard drives.

Proposed Completion Date: November 29, 2017

Actual Completion Date: November 29, 2017

File 1, "RFC2017018760 Certification Package", Milestone 1- Submit, Page 2, in the highlighted areas shows the ■ users removed from active directory as specified in milestone 1.

Milestone # 1 Completion verified.

Milestone 2: Update the process to include validation of the removal of access.

Proposed Completion Date: January 10, 2018

Actual Completion Date: January 22, 2017

File 3, "RFC2017018760 Milestone 2 Additional Evidence", NERC Remediation process, Pages 1 and 2, show the process that includes a validation step.

Milestone # 2 Completion verified.

Milestone 3: Communicate the updated process.

Proposed Completion Date: January 10, 2018

Actual Completion Date: January 18, 2018

File 1, "RFC2017018760 Certification Package", Milestone 3- Submit, Page 2 shows an email with an attached process which was sent to 6 email addresses.

File 2, "RFC2017018760 Milestone 3 Submit", Page 2, shows the email that was sent in regards to the updated process.

Milestone # 3 Completion verified.

The Mitigation Plan is hereby verified complete.

Date: March 12, 2018

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation FROM THIS PUBLIC VERSION

Attachment 5

Record documents for the violation of CIP-004-6 R5

5.a	The Entity's Self-Report (RFC2017017152) submitted
5.b	The Entity's Self-Report (RFC2017017152) submitted;
5.c	The Entity's Mitigation Plan designated as RFCMIT012807-1 submitted
	;
5.d	The Entity's Certification of Mitigation Plan Completion dated ;
5.e	ReliabilityFirst's Verification of Mitigation Plan Completion dated

Self Report

NERC ID: Standard: CIP-004-6
Requirement: CIP-004-6 R5.

Date Submitted: February 24, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name: Contact Phone: Contact Email:

Violation:

Violation Start Date: December 12, 2016

Changed to December 9, 2016

End/Expected End Date:

Reliability Functions:

Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other

Regions?: Which Regions:

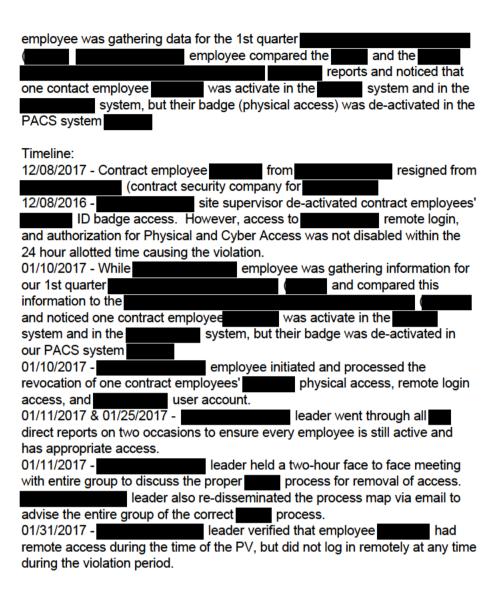
Date Reported to Regions:

Detailed Description and On December 8, 2016, one contract working at Cause of Possible Violation: resigned from (a contract security company for This action caused the site supervisor to de-activate the employees' ID badge. On January 10, 2017, gathered data for the 1st quarter employee compares the The and system notices that one contract employee is activate in the system (Cyber Access for the PACS system), but their badge is de-activated in the PACS system In other words, it became apparent that the employee retained cyber access to the PACS system for more than 24 hours after separating from employment, which had remote login access capabilities. means the contract employee The contract employee worked at . However, since the employee had remote login access capabilities to the PACS associated BES Cyber Systems for more than 24 hours after termination this is the violation. Root Cause of Possible Violation: Contract employee separated employment and his leader did not follow the termination process to remove employees' access which rarely happens at

How was the violation discovered? On January 10, 2017,

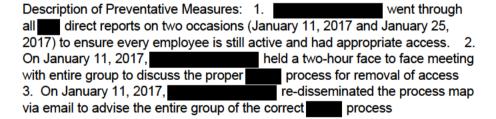
Page 1 of 3 02/27/2017

Self Report



Mitigating Activities:

Description of Mitigating Description of Mitigating Activities: 1. The execution of Quarterly acted Activities and Preventative as a control to detect potential CIP004 violations. 2. Physical ID badge was Measure: disabled



Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe Actual Impact to BPS: Minimal

Description of Potential and Potential impact is determined to be minimal because on January 31, 2017, Actual Impact to BPS: employee verified that during the violation time period 12/8/2016 - 01/10/2017 the employee had remote access but did not log in

remotely.

has not experienced any negative impact to its Bulk

Page 2 of 3 02/27/2017

February 27, 2017

Self Report

Risk Assessment of Impact to Electric System assets as a result of this potential violation. BPS:

Additional Entity Comments:

	Additional Comments			
From	Comment	User Name		
No Comme	No Comments			

Additional Documents					
From	From Document Name Description Size in Bytes				
No Docume	ents				

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Self Report

NERC ID:
Standard: CIP-004-6

Requirement: CIP-004-6 R5.

Date Submitted: March 01, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: January 08, 2017 End/Expected End Date: January 30, 2017

Reliability Functions:



Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No

been reported to other

Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and is a server that enforces dual authentication. This server is classified as Cause of Possible Violation: an EACMS for assets. A shared account server. The password for this account is known to only those manage who are listed in a document that is maintained by respective business units. On January 26 during an internal QA review of data, including list of users with access to shared accounts, for CIP004 R5.5, it was discovered that an employee of voluntarily left the company and who knew password for ' account. Further review shows that the password for the account was not changed within 30 days of the termination, violating NERC CIP004 R5.5. We further verified that all other Physical and Cyber access for this employee was removed promptly. The password for the shared account was changed immediately after finding the violation.

*Root Cause of Possible Violation:

has a system access control procedure and policy program that states passwords must be changed for each shared account to which the employee has authorized access within 30 days of the termination action. However, the procedure was not followed due to a lack of knowledge transfer. Yet, the password was changed after the issue was discovered. A new SME took over the responsibilities of managing servers. Lack of roles transitioning failure within was determined to be the cause of the violation.

Page 1 of 3 03/01/2017

March 01, 2017

Self Report

*How was the violation discovered?

Violation was discovered during an internal QA review of data for CIP004 R5.5.

*Timeline

- 1. December 9, 2017 the employee left the company.
- 2. December 9, 2017 Interactive remote access and unescorted physical access was removed.
- 3. January 26, 2017 QA review discovered this issue.
- 4. January 30, 2017 the password was changed.

Mitigating Activities:

Description of Mitigating Mitigating:

Activities and Preventative Interactive Remote access and unescorted physical access was removed Measure: promptly (following procedure and requirement CIP004 Part 5.1)

Password of account was changed after discovering the violation.

Preventative Measures:

- will update the System Access Control Procedures shared account inventory to reflect the current shared account inventory.
- A procedure will be developed by to include a check list for transitioning SMEs between the roles.
- Will perform quality check across all BCAs to see if there are other similar occurrences (Extent of condition)

Date Mitigating Activities March 08, 2017 Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Minimal Actual Impact to BPS: Minimal

Description of Potential and The Potential Impact to the BES is Low as Interactive remote access and

Actual Impact to BPS: unescorted physical access was removed the same day the employee left the

company. The Actual Impact to the BES is none as has not experienced a situation where the BES was negatively impacted as a result

of delayed shared account password change.

Risk Assessment of Impact to BPS: identifies that potential impact to the BES is low due to the individual who got terminated did not have the password of the shared drive.

Additional Entity Comments:

	Additional Comments	
From	Comment	User Name
No Comme	nts	

	Additional Documents				
From Document Name		Description	Size in Bytes		

Page 2 of 3 03/01/2017

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

March 01, 2017

Self Report

No Documents		

Page 3 of 3 03/01/2017

Violation Validated On

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: Mitigation Plan Version: 2

NERC Violation ID Requirement

RFC2017017152 CIP-004-6 R5.

Mitigation Plan Submitted On: April 12, 2017

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: May 23, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Page 1 of 9 04/12/2017

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:				
Entity Name:				
NERC Compliance Registry ID:				
Address:				

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:



Page 3 of 9 04/12/2017

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Violation(s)

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Violation ID	Date of Violation	Requirement					
Requirement Description							
RFC2017017152 12/12/2016 CIP-004-6 R5.							
	Each Responsible Entity shall implement one or more documented access revocation program(s) that collectively include each of the applicable requirement parts in CIP-004-6 Table R5 – Access Revocation.						
Brief summary including the cause	of the violation(s) and mecha	nism in which it was identified:					
Incident 1:							
on December 8, 2016, one contract a contract security compared a contract security compared activate the employees' ID badg in the system in the activated in the PACS system system for more than 24 hours after access capabilities. The contract elemployee had remote login access Systems for more than 24 hours after access capabilities.	This active. On January 10, 2017, The reports and system (Cyber Access It was apparent that the reports apparating from employment mployee worked at capabilities to the PACS asset						
Incident 2:							
who are listed in a document that is review of data that included the list that an employee of password for account. within 30 days of the termination, vi	d to manage server. The maintained by respective but of users with access to share volunta volunta Further review shows that the olating NERC CIP004 R5.5. Vis removed promptly. The pass	classified as an EACMS for assets. As a password for this account is known to only those siness units. On January 26 during an internal QA d accounts for CIP004 R5.5, it was discovered arily left the company with knowledge of the e password for the account was not changed We further verified that all other Physical and sword for the shared account was changed					
Cause of Possible Violation:							
		ader did not follow the termination process ERC CIP authorized access rarely occurs at					
changed for each shared account to	o which the employee has au s not followed due to a lack of er the issue was discovered. oilities of managing serv	policy program that states passwords must be thorized access within 30 days of the termination f knowledge transfer for new responsible SME.					
Timeline:							
Incident 1:							
12/08/2017 - Contract employee fro	resigned	from (contract security					

Page 4 of 9 04/12/2017

April 12, 2017

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

company for 12/08/2016 - site supervisor de-activated contract employees' ID badge access. However, access to remote login, and authorization for Physical and Cyber Access was not disabled within the 24 hour allotted time causing the violation. The employee retained cyber access to the PACS system for more than 24 hours after separating from employment, which means the contract employee had remote login access capabilities. 01/10/2017 - While employee was gathering information for our 1st quarter and compared this information to the and noticed one contract employee was active in the system and in the system, but their badge was de-activated in our PACS system (01/10/2017 - employee initiated and processed the revocation of one contract employees' physical access, remote login access, and user account. 01/11/2017 & 01/25/2017 - leader went through all direct reports on two occasions to
ensure every employee is still active and has appropriate access. 01/11/2017 - leader held a two-hour face to face meeting with entire group to discuss the proper process for removal of access. leader also re-disseminated the process map via email to advise the entire group of the correct process. 01/31/2017 - leader verified that employee had remote access during the time of the PV, but did not log in remotely at any time during the violation period. Incident 2: 12/9/2016 - the employee left the company. 12/9/2016 - Interactive remote access and unescorted physical access was removed. 1/26/2017 - QA review discovered this issue. 1/30/2017 - the password was changed
What is the violation?
Incident 1: The contract employee worked at had remote login access capabilities to the PACS associated 24 hours after termination this is the violation.
Incident 2: A shared account password was not changed within 30 days of the termination, violating NERC CIP004 R5.5.
Relevant information regarding the identification of the violation(s):
How was the violation discovered?
Incident 1: On January 10, 2017, employee was gathering data for the 1st quarter employee compared the and the reports and noticed that one contract employee was activated in the system and in the system, but their badge (physical access) was de-activated in the PACS system (

Incident 2: Violation was discovered during an internal QA review of data for CIP004 R5.5.

Page 5 of 9 04/12/2017

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

Milestones below show the detailed actions is undertaking to mitigate the violation.

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: May 23, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Instance 1- Hold Security / Vendor Meeting	Go through all leader's employees managed to determine if all employees still working on account	01/11/2017	01/11/2017		No
Instance 1- Revoke access	Revoke NERC Access	01/11/2017	01/10/2017		No
Instance 1- Training	Retrain leaders on non-EE deactivation process	01/11/2017	01/11/2017		No
Instance 2- Milestone 1	will update the System Access Control Procedures shared account inventory to reflect the current shared account inventory.	03/08/2017	03/16/2017		No
Instance 2- Milestone 2	A procedure will be developed by to include a check list for transitioning SMEs between the roles.	03/08/2017	03/23/2017		No
Instance 2- Milestone 3	Will perform quality check across all BCAs to see if there are other similar occurrences (Extent	05/23/2017			No

Page 6 of 9 04/12/2017

April 12, 2017

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	of condition)				

Additional Relevant Information

Page 7 of 9 04/12/2017

Reliability Risk

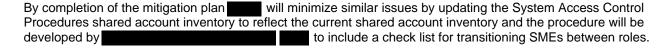
Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

The risk to the BES is determined to be minimum because both the terminations were volunteer separations. Review of logs shows no activity from respective IDs after the separation date.

Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur



Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

Page 8 of 9 04/12/2017

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

Authorized Individual Signature:

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

ride.

Authorized On: April 11, 2017

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017017152

Mitigated Standard Requirement(s): CIP-004-6 R5.

Scheduled Completion as per Accepted Mitigation Plan: May 23, 2017

Date Mitigation Plan completed: May 18, 2017

RF Notified of Completion on Date: May 30, 2017

Entity Comment:

Additional Documents				
From	Document Name	Description	Size in Bytes	
Entity	RFC2017017152 Certification Package - Submit.zip	A ZIP file "RFC2017017152 Certification Package.zip" contains the following: RFC2017017152 Cover Page - Submit.pdf - Cover page for overall package. This violation was combination of two different violations (Instance 1 and Instance 2). Instance 1-Milestone 1 - Submit.pdf - Contains evidence to support completion of milestone 1 for instance 1. Instance 1-Milestone 2 - Submit.pdf - Contains evidence to support completion of milestone 2 for instance 1. Instance 1-Milestone 3 - Submit.pdf - Contains evidence to support completion of milestone 3 for instance 1. Instance 2-Milestone 1 - Submit.pdf - Contains evidence to support completion of milestone 1 for instance 2. Instance 2-Milestone 2 - Submit.pdf - Contains evidence to support completion of milestone 2 for instance 2. Instance 2-Milestone 3 - Submit.pdf - Contains evidence to support completion of milestone 2 for instance 2.	4,237,443	

Page 1 of 2 05/31/2017

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

May 31, 2017

	Additional Documents			
From	Document Name	Description	Size in Bytes	
Entity	Entity RFC2017017152 Certification Package - Submit.zip evidence to support completion of milestone 3 for instance 2.		4,237,443	
Submit-NEW.zip		File Instance 2-Milestone 3 - Submit-NEW.zip contains Instance 2-Milestone 3 - Submit. PDF. This has to be zipped and uploaded separately as it was greater than 50MB file.	45,698,735	

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Page 2 of 2 05/31/2017

Mitigation Plan Verification for RFC2017017152

Standard/Requirement: CIP-004-6 R5

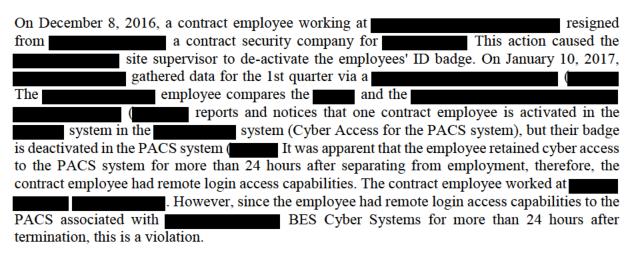
NERC Mitigation Plan ID: RFCMIT012807-1

Method of Disposition: Not yet determined

Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report 02/24/17					
03/01/17	04/12/17	04/12/17		05/30/17	05/18/17

Description of Issue

Incident 1:



Incident 2:

is a server that enforces dual authentication. This server is classified as an EACMS for
assets. A shared account ' is used to manage the server. The password
for this account is known to only those who are listed in a document that is maintained by
respective business units. On January 26, during an internal QA review of data that included the
list of users with access to shared accounts for CIP004 R5.5, it was discovered that an employee
of voluntarily left the company with knowledge of the
password for 'account. Additional review shows that the password for the account
was not changed within 30 days of the termination, violating NERC CIP004 R5.5. We further
verified that all other Physical and Cyber access for this employee was removed promptly. The password for the shared account was changed immediately after finding the violation.

Cause of Possible Violation:

Incident 1: Contract employee separated employment and his leader did not follow the termination process to remove employees' access. Termination of personnel with NERC CIP authorized access rarely occurs at a BES asset.

Incident 2: has a system access control procedure and policy program that states passwords must be changed for each shared account to which the employee has authorized access within 30 days of the termination action. However, the procedure was not followed due to a lack of knowledge transfer for new responsible SME. Yet, the password was changed after the issue was discovered.

Evidence Reviewed			
File Name Description of Evidence Stand		Standard/Req.	
File 1	RFC2017017152 Certification Package-	CIP-004-6 R5	
	Submit		
File 2 Instance 2 Milestone 3- Submit-NEW CIP-004-6 R5		CIP-004-6 R5	

Verification of Mitigation Plan Completion

Milestone 1: Instance 1- Hold Security/Vendor Meeting.

File 1, "RFC2017017152 Certification Package- Submit (ZIP File Folder)", Instance 1 – Milestone 1- Submit (File Name), Pages 2 through 5, provide evidence as to the occurrence of a Security and Vendor meeting to discuss the PNC of CIP-004-6 R5. In addition, two agendas and attendance rosters were also provided (Page 2 and Page 5).

Milestone #1 Completion Verified.

Milestone 2: Instance 1- Revoke access.

File 1, "RFC2017017152 Certification Package-Submit (ZIP File Folder)", Instance 1—Milestone 2- Submit(File Name), Pages 2 through 7, show how CIP environment is labeled in order to provide evidence and explanation into the requests to revoke access according to Milestone 2 and to demonstrate that no access/access events occurred during the time of this potential noncompliance. Pages 8 through 11 provide tickets for access revocation as required by Milestone 2.

Milestone #2 Completion Verified.

Milestone 3: Instance 1- Training.

File 1, "RFC2017017152 Certification Package-Submit (ZIP File Folder)", Instance 1—Milestone 3—Submit (File Name), Page 2 of 14, provides an email with attachments that was delivered to affected employees in order to reinforce the revocation process. Page 3 of 14, shows the process workflow for the revocation of access while Pages 5 through 12, walk a user through the steps of how to formally request and/or remove access via their enterprise business system.

Milestone # 3 Completion Verified.

Milestone 4: Instance 2- Milestone 1

File 1, "RFC2017017152 Certification Package-Submit (ZIP File Folder)", Instance 2—Milestone 1—Submit (File Name), Pages 7 and 8, illustrate the update to the System Access Control Procedures shared account inventory as specified by this milestone. Page 12 shows the revision history of this update from January 30, 2017, which specifies these changes and their location within the document.

Milestone #4 Completion Verified.

Milestone 5: Instance 2- Milestone 2

File 1, "RFC2017017152 Certification Package- Submit (ZIP File Folder)", Instance 2 – Milestone 2 – Submit (File Name), Pages 2 through 5, show the checklist for transitioning SMEs required by this milestone.

Milestone # 5 Completion Verified.

Milestone 6: Instance 2 - Milestone 3.

File 2, "Instance 2- Milestone 3- Submit-New (Zip File Folder)", Instance 2- Milestone 3 – Submit –New (File Name), Pages 15 through 265, show the extent of condition analysis performed in regard to access revocation when employees have changed roles, or left the company.

Milestone # 6 Completion Verified.

The Mitigation Plan is hereby verified complete.

Date: June 22, 2017

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation

FROM THIS PUBLIC VERSION

Attachment 6

Record documents for the violation of CIP-005-5 R2

6.a	The Entity's Self-Report (RFC2018019570);
6.b	The Entity's Mitigation Plan designated as RFCMIT013868 submitted
6.c	The Entity's Certification of Mitigation Plan Completion dated ;
6.d	ReliabilityFirst's Verification of Mitigation Plan Completion dated

NERC ID: Standard: CIP-005-5
Requirement: CIP-005-5 R2.

Date Submitted: April 11, 2018

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: November 13, 2017 Changed to July 1, 2016

End/Expected End Date:

Reliability Functions:



Is Possible Violation still No

occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other

Regions?: Which Regions:

Date Reported to Regions:

Detailed Description and Current Process:

Cause of Possible Violation:

Incident description:

Methodology summary:

Page 1 of 4 04/11/2018

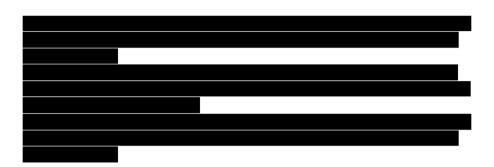




Mitigating Activities:



Page 3 of 4 04/11/2018



Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe Actual Impact to BPS: Minimal

Description of Potential and Potential Impact:





	Additional Comments				
From	Comment	User Name			
No Comments					

Additional Documents						
From	Document Name	Description	Size in Bytes			
No Documents						

Page 4 of 4 04/11/2018

June 13, 2018

Mitigation Plan

Mitigation Plan Summary

Registered Entity:



Mitigation Plan Code:

Mitigation Plan Version: 1

NERC Violation ID

Requirement

Violation Validated On

Mitigation Plan Submitted On: June 13, 2018

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: August 15, 2018

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Page 1 of 14 06/13/2018

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:					
Entity Name:					
NEDC Compliance Bogista, ID:					
NERC Compliance Registry ID:					
Address:					

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:



Violation(s)

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Violation ID	Date of Violation	Requirement
	Requirement Description	
		ining program(s) appropriate to individual
es, functions, or responsibilities that co	ollectively includes each of the	applicable requirement parts in
Brief summary including the cause	e of the violation(s) and mecha	nism in which it was identified:
Current Process:		
Incident description:		
Methodology summary:		

Page 4 of 14 06/13/2018



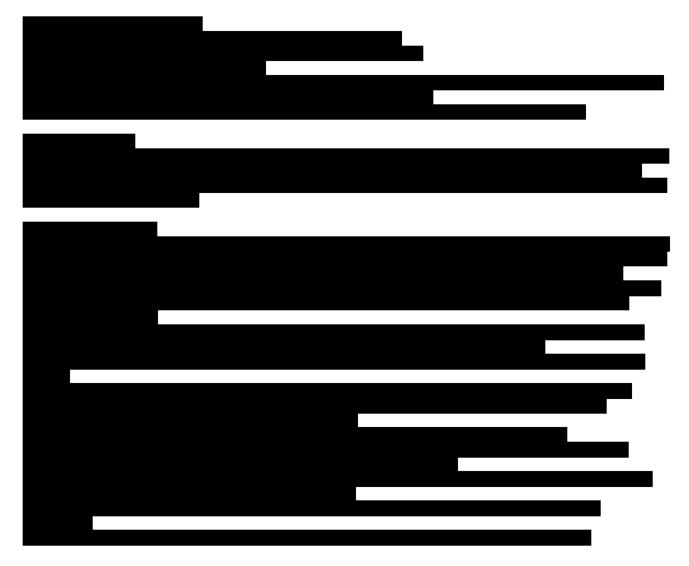
ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

June 13, 2018

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:



Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: August 15, 2018

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

		*Proposed			
		Completion Date	Actual	F 17 0	Extension
Milestone Activity	Description	(Shall not be greater than 3 months apart)	Completion Date	Entity Comment on Milestone Completion	Request Pending
		11/15/2017	11/15/2017		No
		12/04/2017	12/04/2017		No
		12/05/2017	12/05/2017		No
		12/05/2017	12/05/2017		No
		12/05/2017	12/05/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Wilestone Activity	Description	than 3 months apart)	Date	Willestoffe Completion	rending
		12/06/2017	12/06/2017		No
		01/30/2018	01/30/2018		No
		04/16/2018	04/16/2018		No
		06/25/2018			No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
		uian 3 monuis apart)			
		06/28/2018			No
		00/20/2018			INO
		07/00/0040			
		07/03/2018			No
		07/30/2018			No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
		08/06/2018			No
					No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
		08/15/2018			No

Additional Relevant Information

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

June 13, 2018

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

Page 13 of 14 06/13/2018

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

Authorized Individual Signature:

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Authorized On: June 13, 2018

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:		
NERC Registry ID:		
NERC Violation ID(s):		
Mitigated Standard Requirement(s):		
Scheduled Completion as per Accepted Mitigation Plan:	August 15, 2018	-
Date Mitigation Plan completed:	August 15, 2018	
RF Notified of Completion on Date:	August 15, 2018	
Entity Comment:		

Additional Documents			
From	Document Name	Description	Size in Bytes
Entity	Package.zip	Zip file "Contains evidence supporting completion of each milestone. There is one PDF file for each milestone. An excel sheet "Milestone 11 - Completion Report - Required Read" is in support to "Milestone 1 - Submit.PDF"	21,751,684

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name.		
Title:		
Email:		
Phone:		
Authorized Signature	Date	
(Electronic signature was received by the Regional Office v	a CDMS. For Electronic Signature Policy see CMEP.)	

Page 1 of 1 08/15/2018

Mitigation Plan Verification for	
Standard/Requirement:	
NERC Mitigation Plan ID:	
Method of Disposition: Not yet determined	

Relevant Dates					
		Date of Completion			
Self-Reports 04/11/18	06/13/18	07/12/18	10/05/18	08/15/18	08/03/18

Description of Issue

Mitigation Plan Task RFC2018019567 et al

Evidence Reviewed			
File Name	Description of Evidence	Standard/Req.	
File 1	Certification Package		
File 2	Certification Package Updated		

Evidence Reviewed			
File Name Description of Evidence		Standard/Req.	
File 3			

Verification of Mitigation Plan Completion
Milestone 1:
Proposed Completion Date: November 15, 2017
Actual Completion Date: November 15, 2017
File 2, " Certification Package Updated," Milestone 1 – Submit at Pages 2 through 12, shows:
Milestone #1 Completion verified.
Milestone 2:
Proposed Completion Date: December 4, 2017
Actual Completion Date: December 15, 2017
File 2, " Certification Package Updated," Milestone 2 – Submit at Pages 2 and 3, contains a signed attestation, which includes a statement explaining that

Milestone #2 Completion verified.

Milestone 3: Correct vulnerable configuration on
Proposed Completion Date: December 5, 2017
Actual Completion Date: May 2, 2018
File 2, " Certification Package Updated," Milestone 3 – Submit at Pages 2 through 11, shows that the entity disabled ,
Milestone # 3 Completion verified.
Milestone 4:
Proposed Completion Date: December 5, 2017
Actual Completion Date: December 15, 2017
File 2, " Certification Package Updated", Milestone 4 – Submit at Pages 2 and 3, contains a signed attestation, which includes a statement explaining that
Milestone # 4 Completion verified.
Milestone 5:
Proposed Completion Date: December 5, 2017
Actual Completion Date: December 5, 2017
File 2, " Certification Package Updated," Milestone 5 – Submit at Pages 2 through 445, shows that the entity
Milestone # 5 Completion verified.

Milestone 6:
Proposed Completion Date: December 6, 2017
Actual Completion Date: November 20, 2017
File 2, " Certification Package Updated," Milestone 6 – Submit at Pages 2 and 3, contains a signed attestation, which includes a statement explaining that
Milestone # 6 Completion verified.
Milestone 7:
Proposed Completion Date: January 30, 2018
Actual Completion Date: January 30, 2018
File 2, Certification Package Updated," Milestone 7 – Submit at Pages 2 through 12, shows that the entity
Milestone #7 Completion verified.
Milestone 8: .
Proposed Completion Date: June 25, 2018
Actual Completion Date: June 25, 2018
File 2, "Certification Package Updated," Milestone 9 – Submit at Pages 2 through 8, contains: (a) pre- and post-
Milestone #8 Completion verified.
Milestone 9:
Proposed Completion Date: June 28, 2018

Actual Completion Date: June 22, 2018
File 2, " Certification Package Updated," Milestone 10 – Submit at Pages 2 through 11, shows the updated program, which includes The same file at Pages 12 and 13 shows the email sent out regarding the updates along with contact information if staff had questions or concerns.
Milestone #9 Completion verified.
Milestone 10: Create a process for
Proposed Completion Date: July 3, 2018
Actual Completion Date: August 3, 2018
File 2, " Certification Package Updated," Milestone 11 – Submit at Pages 2 through 10, contains a process diagram, a standard work instruction, and emails communicating the diagram and standard work instruction. File 2, Certification Package Updated," Milestone 10 – Submit at Pages 2 through 14, shows an updated program, which includes
Milestone # 10 Completion verified.
Milestone 11:
Proposed Completion Date: July 30, 2018
Actual Completion Date: July 5, 2018
File 2, "Example 15 Certification Package Updated," Milestone 11 – Submit at Pages 2 through 15, shows the standard work instruction that was updated to reflect revocation of access after 120 days of consecutive non-use.
Milestone # 11 Completion verified.
Milestone 12: Perform risk assessment on

Proposed Completion Date: August 6, 2018

Actual Completion Date: July 20, 218

File 2, "Example 13 - Submit at Pages 2 through 5, contains documents evidencing the entity's risk assessment of

Milestone #12 Completion verified.

Milestone 13: Deploy

Proposed Completion Date: August 13, 2018

Actual Completion Date: July 23, 2018

File 2, "Example 14 - Submit at Pages 2 through 37, shows the approved change order requests for the

Milestone #13 Completion verified.

Milestone 14: Communicate updated and newly created process(es).

Completion Date: August 15, 2018

Actual Completion Date: August 3, 2018

File 2, "Milestone 7 – Submit, Milestone 10 – Submit, Milestone 11 – Submit, Milestone 12 – Completion Report, contain the relevant communications and/or records of communications.

Milestone # 14 Completion verified.

The Mitigation Plan is hereby verified complete.

Date: February 7, 2019

Anthony Jablonski Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation FROM THIS PUBLIC VERSION

Attachment 7

Record documents for the violations of CIP-006-6 R1

/.a	The Entity's Self-Report (RFC2017017304);	
7.b	The Entity's Mitigation Plan designated as RFCMIT012854 submitted	;
7.c	The Entity's Certification of Mitigation Plan Completion dated	;
7.d	ReliabilityFirst's Verification of Mitigation Plan Completion dated	;
7.e	The Entity's Self-Report (RFC2017017547);	
7.f	The Entity's Mitigation Plan designated as RFCMIT012890 submitted	;
7.g	The Entity's Certification of Mitigation Plan Completion dated	;
7.h	ReliabilityFirst's Verification of Mitigation Plan Completion dated	
	;	
7.i	The Entity's Self-Report (RFC2017018166);	
7.j	The Entity's Mitigation Plan designated as RFCMIT013214 submitted	
	;	
7.k	The Entity's Certification of Mitigation Plan Completion dated	;
7.l	ReliabilityFirst's Verification of Mitigation Plan Completion dated	
	;	
7.m	The Entity's Self-Report (RFC2017018857);	
7.n	The Entity's Mitigation Plan designated as RFCMIT013482 submitted	
	;	
7.o	The Entity's Certification of Mitigation Plan Completion dated	;
7.p	ReliabilityFirst's Verification of Mitigation Plan Completion dated	

Self Report

Entity Name:

NERC ID:

Standard: CIP-006-6

Requirement: CIP-006-6 R1.

Date Submitted: March 17, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: August 10, 2016 Changed to January 20, 2017

End/Expected End Date:

Reliability Functions:

Is Possible Violation still No occurring?:

Number of Instances: 5

Has this Possible Violation No been reported to other Regions?:

Which Regions:

Date Reported to Regions:

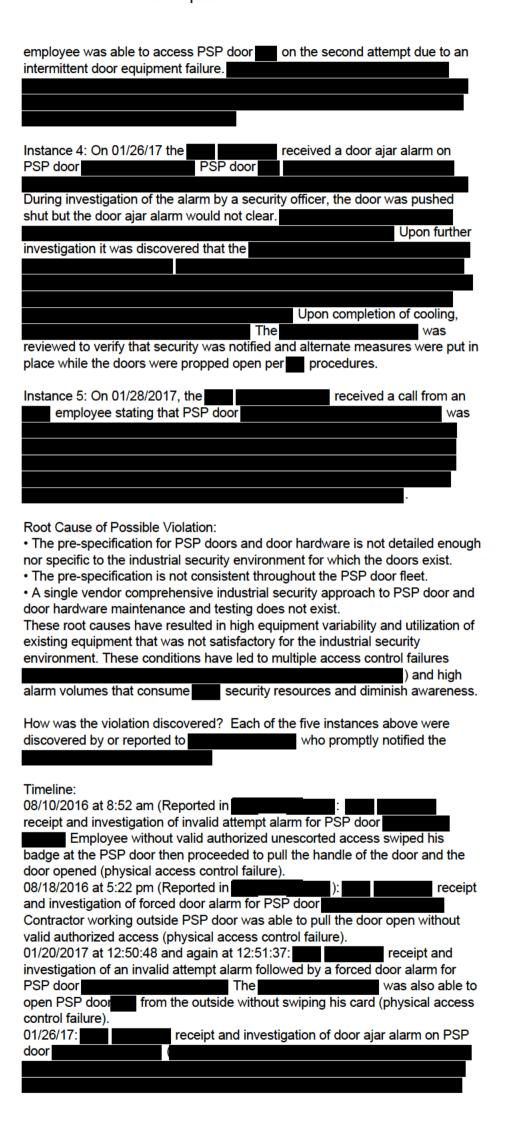
Instance 1 (Reported in Physical Access Control System (PACS) invalid attempt alarm was received by the Formula of the alarm revealed an employee without valid authorized unescorted access swiped his badge at the PSP door then proceeded to pull the handle of the door and the door opened.

Instance 2 (Reported in _______): On 08/18/2016 at 5:22 pm a forced door alarm was received by the ______ for PSP door ______ Investigation of the alarm revealed that a contractor working outside of the PSP door was able to pull the door open without valid authorized access (swiping the badge).

Instance 3: On 01/20/2017 at 12:50:48 and again at 12:51:37 an employee without valid authorized unescorted access swiped her badge at PSP door Both attempts generated an invalid attempt alarm followed by a forced door alarm monitored by the

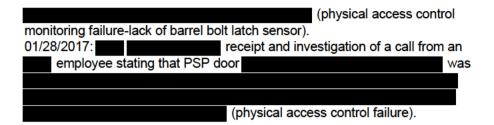
Page 1 of 4 03/17/2017

Self Report



Page 2 of 4 03/17/2017

Self Report



Mitigating Activities:

Description of Mitigating Mitigating Activities: Activities and Preventative A PSP Door and Alarm Study was conducted on 02/10/2017 covering the Measure: PSP doors at One of the findings of the study included the identification of four high failure PSP doors that provide alternate access and make up a high percentage of alarms per month. Until the permanent solution is implemented, these alternate access PSP doors were temporarily blocked off on 02/13/2017 to reduce the high alarm volumes that consume security resources. Preventive Measures: Standup on 02/02/2017 of bi-weekly conference call with stakeholders to communicate and collaborate on PSP door triage efforts led project plan is in place. Commencing in early March, the assumed the lead in developing and executing a project plan to produce a detailed and consistent pre-specification for the PSP doors and door hardware specific to the industrial security environment at The project plan will also include the identification of a single vendor to implement a comprehensive industrial security approach to PSP door and door hardware maintenance and testing. The work breakdown structure for the project will act as milestone

Date Mitigating Activities Completed: 2/13/2017

activities for this self-report's mitigation plan.

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe Actual Impact to BPS: Minimal

Description of Potential and The potential and actual impacts to the BPS are assessed to be a Violation Actual Impact to BPS: Severity Level of "Severe."

possesses detective controls that are effective in monitoring and responding to alerts, reports and/or discoveries of unauthorized physical access however, the preventive physical access controls for multiple PSP are failing and do not restrict access to Applicable Systems. These preventive control failures allow for opportunities to negatively impact the BES before detective controls are executed.

BPS: due to the high failure	e rate of preventive PSP physical access controls
Electric System asset	has not experienced any negative impact to its Bulk is as a result of this potential violation.

Page 3 of 4 03/17/2017

March 17, 2017

Self Report

Additional Entity Comments:

	Additional Comments	
From	Comment	User Name
No Comme	nts	

Additional Documents				
From	Document Name	Description	Size in Bytes	
No Documents				

Page 4 of 4 03/17/2017

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: Mitigation Plan Version: 1

NERC Violation ID Requirement Violation Validated On

RFC2017017304 CIP-006-6 R1.

Mitigation Plan Submitted On: May 01, 2017

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: July 31, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

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Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:	
Entity Name:	
NERC Compliance Registry ID:	
Address:	

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:



Requirement

CIP-006-6 R1.

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Violation(s)

Violation ID

RFC2017017304

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Date of Violation

08/10/2016

Requirement Description

Each Responsible Entity shall implement one or more documented physical security plan(s) that collectively include all of the applicable requirement parts in CIP-006-6 Table R1 – Physical Security Plan.
Brief summary including the cause of the violation(s) and mechanism in which it was identified:
Summary of Violations NOTE: The first two instances were previously reported on September 21, 2016 (NERC Violation ID: They are included in this self-report only to show the trend of door hardware failures occurring at
Instance 1 (Reported in Physical Access Control System (PACS) invalid attempt alarm was received by the for Physical Security Perimeter (PSP) door Investigation of the alarm revealed an employee without valid authorized unescorted access swiped his badge at the PSP door then proceeded to pull the handle of the door and the door opened.
Instance 2 (Reported in On 08/18/2016 at 5:22 pm a forced door alarm was received by the for PSP door Investigation of the alarm revealed that a contractor working outside of the PSP door was able to pull the door open without valid authorized access (swiping the badge).
Instance 3: On 01/20/2017 at 12:50:48 and again at 12:51:37 an employee without valid authorized unescorted access swiped her badge at PSP door Both attempts generated an invalid attempt alarm followed by a forced door alarm monitored by the Cartest The employee was able to access PSP door on the second attempt due to an intermittent door equipment failure.
Instance 4: On 01/26/17 the received a door ajar alarm on PSP door so is a During investigation of the alarm by a security officer, the door was pushed shut but the door ajar alarm would not clear.
Instance 5: On 01/28/2017, the PSP door was malfunctioning and employee stating that

Root Cause of Violations

• A single owner providing a comprehensive industrial security approach for PSP doors (providing oversight of PSP door security operations, maintenance and testing) does not exist.

May 01, 2017

- The pre-specification for PSP doors and door hardware is not detailed enough nor specific to the industrial security environment for which the doors exist.
- The pre-specification is not consistent throughout the PSP door fleet.

Scope Review (Extent of Condition) The scope of this mitigation plan includes all PSP doors and door hardware as the root causes listed apply to all existing equipment in the industrial security environment. The industrial environment conditions have led to multiple access control failures and high alarm volumes that, due to the root causes listed, can affect any PSP door.	h
Timeline Date Event 08/10/2016 at 8:52 am Instance 1 (Previously reported in investigation of invalid attempt alarm for PSP door physical access control failure). 08/18/2016 at 5:22 pm Instance 2 (Previously reported in investigation of forced door alarm for PSP door able to pull the door open without valid authorized access (physical access control failure). 01/20/2017 at 12:50:48 and 12:51:37 Instance 3: alarm followed by a forced door alarm for PSP door able to open PSP door from the outside without swiping his card (physical access control failure).	-
01/26/17 Instance 4: receipt and investigation of door ajar alarm on PSP door	
01/28/2017 Instance 5: receipt and investigation of a call from an employee stating that PSP door was malfunctioning and	
(physical access control failure).	
Relevant information regarding the identification of the violation(s):	
Identification Mechanism Each of the five instances were discovered by or reported to who promptly notified the	

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Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

Corrective Actions:

A PSP Door and Alarm Study (Milestone 1) was conducted on 02/10/2017 covering the PSP doors at and benchmarking other industrial sites to identify common equipment and human performance issues and resolutions. The study included an inventory of all PSP door hardware, examination of all maintenance performed and re-examination of past violations regarding access control. The results of the study led to a two phased approach to implementing PSP door security operations, maintenance and testing for the PSP doors:

- Phase 1: most problematic doors
- Phase 2: Remaining doors

Four PSP doors providing alternate access to PSPs (ie. Not the primary entrance) were identified as high failure PSP doors during the Door and Alarm Study. These alternate access doors were temporarily roped off on 02/13/2017 with "Emergency Use Only" signs posted in an effort to reduce the high alarm volumes that consume security resources (Milestone 2).

Preventive Actions:

- Define, document and communicate PSP Program roles and responsibilities to include Physical Security Program Owner accountability and business unit/vendor responsibilities as they relate to PSP operations and maintenance (Milestone 3).
- Develop Functional Requirements Document (FRD) to address business, functional, non-functional and stakeholder requirements for PSP doors and door hardware located in industrial security environments (Milestone 4).
- Develop a detailed pre-specification for PSP single door and double door design types. Pre-specifications will cover the door and associated door hardware for PSP doors located in industrial security environments (Milestone 5).
- Develop and execute a Pilot security operations and maintenance test plan for phase one PSP doors based on functional requirements and industrial design pre-specifications. Pilot Test Plan encompasses two standards: A PSP Single Door standard and PSP Double Door standard (Milestone 6).
- Conduct Test of One on PSP Single Door and PSP Double Door (Milestone 7) with the expected outcome of a 'Go-No Go' determination for implementing the Phase One PSP Door Replacement Plan for the PSP doors and/or door hardware at (Milestone 8) and Phase Two PSP Door Replacement Plan for the remaining PSP doors and/or door hardware at (Milestone 9).

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: July 31, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Milestone 1	Conduct PSP Door and Alarm Study. Study was conducted	02/10/2017	02/10/2017		No

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NA'lest	D	*Proposed Completion Date (Shall not be greater	Actual Completion	Entity Comment on	Extension Request
Milestone Activity	on all PSP doors at and included an inventory of all PSP door hardware, examination of all maintenance performed and reexamination of past violations regarding access control. Other industrial sites were benchmarked as part of the study to identify common equipment and human performance issues and resolutions. A two phased approach will be taken to provide a comprehensive industrial security approach for PSP doors: - Phase 1: most problematic doors - Phase 2: Remaining doors	(Shall not be greater than 3 months apart)	Date	Milestone Completion	Pending
Milestone 2	Temporarily Block Off High Failure PSP Doors. PSP doors providing alternate access to PSPs (ie. Not the primary entrance) were identified as high failure PSP doors in the Door and Alarm Study. These alternate access doors have been temporarily roped off and "Emergency Use	02/13/2017	02/13/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	Only" signs were posted in an effort to reduce the high alarm volumes that consume security resources.				
Milestone 4	Develop Functional Requirements Document (FRD). FRD will address business, functional, non-functional and stakeholder requirements for PSP doors and door hardware located in industrial security environments.	04/05/2017	04/05/2017		No
Milestone 6	Develop Pilot Test Plan. Develop and execute a Pilot security operations and maintenance test plan for phase one PSP doors based on functional requirements and industrial design prespecifications. Pilot Test Plan encompasses two standards: A PSP Single Door standard and PSP Double Door standard.	04/09/2017	04/10/2017		No
Milestone 5	Develop PSP Door Pre-specifications. Develop a detailed pre-specification for PSP single door and double door design	04/10/2017	04/08/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	types. Pre- specifications will cover the door and associated door hardware for PSP doors located in industrial security environments.	than 3 months aparty			
Milestone 7	Conduct Test of One on PSP Single Door and PSP Double Door. Expected outcome is a 'Go-No Go' determination for implementing Phase One PSP Door Replacement Plan and following Phase Two PSP Door Replacement Plan.	04/26/2017			No
Milestone 3	Define and Document PSP Program Roles and Responsibilities. Define, document and communicate PSP Program roles and responsibilities to include Physical Security Program Owner accountability and business unit/vendor responsibilities as they relate to PSP operations and maintenance.	05/31/2017			No
Milestone 8	Implement Phase One PSP Door Replacement Plan. Implement phase one replacement	06/30/2017			No

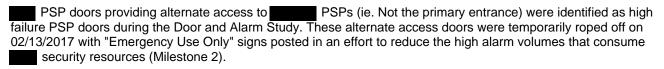
Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	plan for the PSP doors and/or door hardware at				
Milestone 9	Implement Phase Two Rollout. Implement phase replacement plan for the remaining PSP doors and/or door hardware at	07/30/2017			No

Additional Relevant Information

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.



Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur

Successful completion of the Mitigation Plan as laid out in Section D will minimize the probability of incurring further access control failures associated with the PSP doors and door hardware located at

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

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Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees	to be bound by, and comply wit	h, this Mitigation
Plan, including the timetable co	ompletion date, as accepted by t	the Regional Entity, NERC,
and if required, the applicable g	governmental authority.	

Authorized Individual Signature:

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Authorized On: May 01, 2017

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Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017017304

Mitigated Standard Requirement(s): CIP-006-6 R1.

Scheduled Completion as per Accepted Mitigation Plan: October 13, 2017

Date Mitigation Plan completed: September 29, 2017

RF Notified of Completion on Date: October 13, 2017

Entity Comment:

	Additional Documents					
From	Document Name	Description	Size in Bytes			
Entity	RFC2017017304 Submission.zip	A Zip file "RFC2017017304 Submission.zip" contains the cover sheet for the whole package and supporting evidence for each milestone.	3,247,047			

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:	
Title:	
Email:	
Phone:	
Authorized Signature	Date

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Page 1 of 1 10/13/2017

Mitigation Plan Verification for RFC2017017304

Standard/Requirement: CIP-006-6 R1

NERC Mitigation Plan ID: RFCMIT012854

Method of Disposition: Not yet determined

	Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion	
Self-Report 03/17/17	05/01/17	05/26/17	06/28/17	10/13/17	09/29/17	

Description of Issue

authorized unescorted access swiped her	badge	
Both attempts generated an invalid attem	ıpt alaı	m followed by a forced door alarm monitored by
the The employee wa	as able	to access PSP door on the second attempt due
to an intermittent door equipment failure.		_
Second instance: On 01/26/17 the		received a door ajar alarm on PSP door
PSP door is a		

	The Alternate Measures Log was review es were put in place while the doors we	
Third instance: On 0 employee stating that		received a call from an was malfunctioning and
	Evidence Reviewed	
File Name	Description of Evidence	Standard/Req.
File 1	RFC2017017304 Submission	CIP-006-6 R1

Verification of Mitigation Plan Completion

Milestone 1: Conduct PSP Door and Alarm Study. Study was conducted on all PSP doors at and included an inventory of all PSP door hardware, examination of all maintenance performed and re-examination of past violations regarding access control. Other industrial sites were benchmarked as part of the study to identify common equipment and human performance issues and resolutions. A two-phased approach will be taken to provide a comprehensive industrial security approach for 46

- Phase 1: most problematic doors.
- Phase 2: Remaining doors.

Proposed Completion Date: February 10, 2017

Actual Completion Date: February 10, 2017

File 1, "RFC2017017304 Submission", Milestone1 Submit, Page 2, shows the PSP door alarm study as indicated in milestone 1. This study produced evidence via data and analysis that uncontrollable environment variables was the root cause for the number of PSP door alarms associated with this systemic issue.

Milestone # 1 Completion verified

Milestone 2: Temporarily Block Off High Failure PSP Doors. PSP doors providing alternate access to PSPs (i.e. Not the primary entrance) were identified as high failure PSP doors in the Door and Alarm Study. These alternate access doors have been temporarily roped off and "Emergency Use Only" signs were posted in an effort to reduce the high alarm volumes that consume security resources.

Proposed Completion Date: February 13, 2017

Actual Completion Date: February 13, 2017

File 1, "RFC2017017304 Submission" Milestone 2 Submit, Page, 2, shows a positive result of the entities' mitigation plan and actions taken after incident discovery. This document shows the number of nuisance alarms in which were generated prior to containment and countermeasures were effectively implemented. It shows the numbers in the thousands dropping to double digits almost immediately and then to the single digits within roughly 60 days' time.

Milestone # 2 Completion verified

Milestone 3: Define and Document PSP Program Roles and Responsibilities. Define, document and communicate PSP Program roles and responsibilities to include Physical Security Program Owner accountability and business unit/vendor responsibilities as they relate to PSP operations and maintenance.

Proposed Completion Date: May 31, 2017

Actual Completion Date: June 8, 2017

File 1, "*RFC2017017304 Submission*", Milestone3 Submit, Pages 2 through 6, illustrate the RACI model in which the entity created in order to identify responsibilities related to PSP Programs.

Milestone # 3 Completion verified

Milestone 4: Develop Functional Requirements Document (FRD). FRD will address business, functional, non-functional and stakeholder requirements for PSP doors and door hardware located in industrial security environments.

Proposed Completion Date: April 5, 2017

Actual Completion Date: April 5, 2017

File 1, "RFC2017017304 Submission", Milestone 4 Submit, Page 2, shows the functional requirements document which addresses stakeholder requirements residing within industrial security environments.

Milestone # 4 Completion verified

Milestone 5: Develop PSP Door Pre-specifications Develop a detailed pre-specification for PSP single door and double door design types. Pre-specifications will cover the door and associated door hardware for PSP doors located in industrial security environments.

Proposed Completion Date: April 10, 2017

Actual Completion Date: October 13, 2017

File 1, "RFC2017017304 Submission", Milestone 5 Submit, Pages 2 through 7, are an updated version of the entity Access control hardware specifications. This document sets forth the entity standard based upon door classification as to what door specifications need to be followed and/ or addressed according to company policy and procedure. This Latest revision is effective October 13, 2017.

Milestone # 5 Completion verified

Milestone 6: Develop Pilot Test Plan. Develop and execute a Pilot security operations and maintenance test plan for phase one PSP doors based on functional requirements and industrial design pre-specifications. Pilot Test Plan encompasses two standards: A PSP Single Door standard and PSP Double Door standard.

Proposed Completion Date: April 10, 2017

Actual Completion Date: April 8, 2017

File 1, "RFC2017017304 Submission", Milestone 6 Submit, Pages 6 through 10, illustrate the pilot door test plan after the implementation of new hardware. This test plan proposed a specified and expected outcome to determine if the door passed/ failed. Based on Pages 7 through 10, it shows the expected outcome vs. the actual outcome and the remediation's if expected outcome was not obtained and/or failed.

Milestone # 6 Completion verified

Milestone 7: Conduct Test of One on PSP Single Door and PSP Double Door. Expected outcome is a 'Go-No-Go' determination for implementing Phase One PSP Door Replacement Plan and Following Phase Two PSP Door Replacement Plan.

Proposed Completion Date: April 26, 2017

Actual Completion Date: April 26, 2017

File 1, "RFC2017017304 Submission", Milestone 7 Submit, Pages 2 through 6, illustrate the actual door test plan after the implementation of new hardware. This test plan proposed a specified and expected outcome to determine if the door passed/failed. Based on Pages 7 through 10, it shows the expected outcome vs. the actual outcome and the remediation's if expected outcome was not obtained and/or failed.

Milestone # 7 Completion verified

Milestone 8: Implement Phase One PSP Door Replacement Plan. Implement Phase on replacement plan for the PSP doors and/or door hardware at

Proposed Completion Date: June 30, 2017

Actual Completion Date: June 30, 2017

File 1, "RFC2017017304 Submission", Milestone 8 Submit, Pages 2 through 6, shows the first phase of the door replacement plan in regards to this milestone.

Milestone # 8 Completion verified

Milestone 9: Implement Phase Two Rollout. Implement phase replacement plan for the remaining PSP doors and/or door hardware at

Proposed Completion Date: October 13, 2017

Actual Completion Date: September 29, 2017

File 1, "RFC2017017304 Submission", Milestone 9 Submit, Page 4, shows the phase 2 replacement implementation including start and completion dates. As indicated by this milestone.

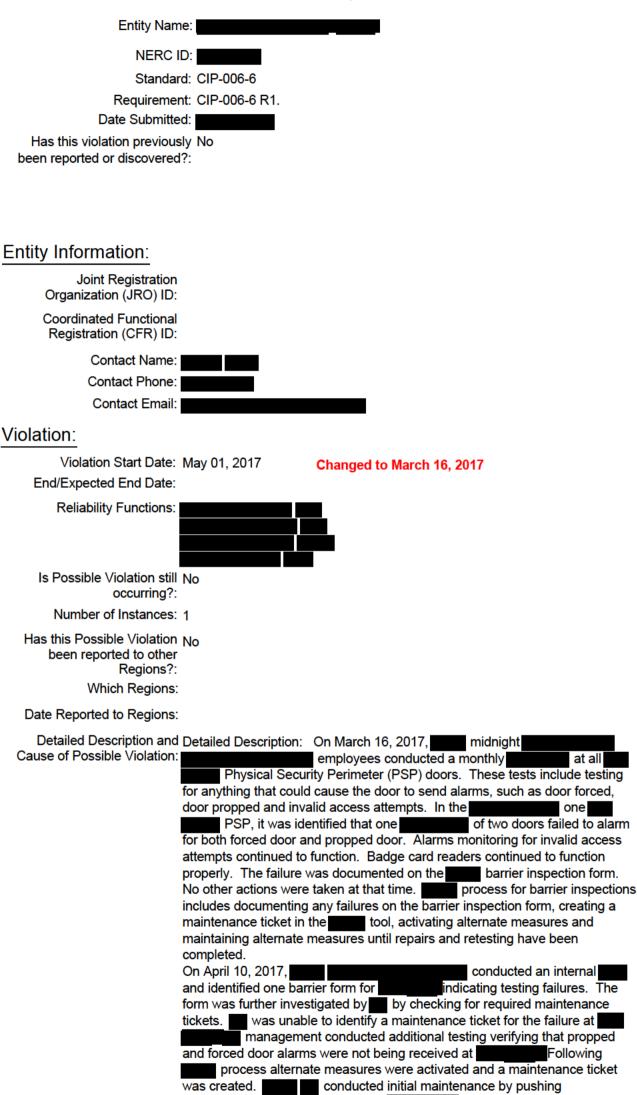
Milestone # 9 Completion verified

The Mitigation Plan is hereby verified complete.

Date: December 5, 2017

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation

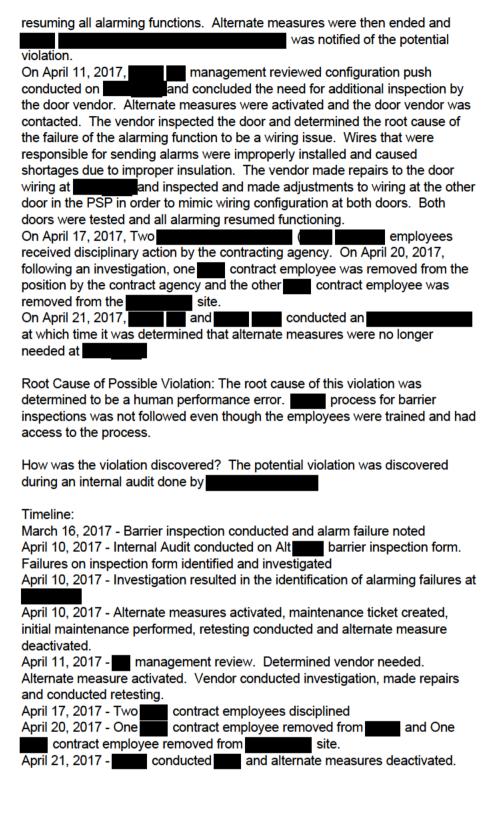
Self Report



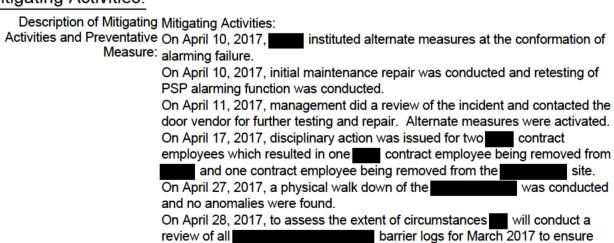
This action resulted in the door

configuration files to the system for

Self Report



Mitigating Activities:



Self Report

there were no additional failures identified and not escalated.

	Preventive Measures: To prevent any future reoccurrences, the vendor made repairs to door wiring at both doors in the PSP and retested alarming functionality. also conducts monthly barrier inspections at each site.				
Da	te Mitigating Activities , Completed:	April 28, 2	2017		
Impa	ct and Risk Asse	ssmen	<u>t:</u>		
Po	tential Impact to BPS:	Severe			
	Actual Impact to BPS:	Minimal			
Desc		Additiona	ntial impact to the BPS is severe following the ally, there was the potential that a door could he eone without proper authorization could have	nave been	propped open
	The actual impact is low due to several mitigating factors in place during the potential violation. Security at the PSP. This Site first requires restricted access to the building and is continuously monitored by cameras. In addition, it is located approximately feet from the Badge reader functionality continued during the potential violation and monitoring for invalid access attempts at the PSP also continued to function. A walk down of the PSP was completed on 04/27/2017 and no anomalies were found. PSP was completed on 04/27/2017 and no anomalies were found. PSP doors that requires testing to be performed monthly instead of biannually as required by CIP 006 R3.1. Risk Assessment of Impact to The risk of Impact to the BPS has been identified as low due to the mitigating BPS: factors in place during the identification of the potential violation. Additional Entity Comments: Additional Entity Comments: PSP Potential violation PSP Potential violation PSP PS				
			Additional Comments		
From	-1-		Comment	Use	er Name
No Commer	าเร				
			Additional Documents		
From	Document Nan	ne	Description		Size in Bytes
No Docume	nts				

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: RFCMIT012890

Mitigation Plan Version: 1

NERC Violation ID Requirement Violation Validated On

RFC2017017547 CIP-006-6 R1.

Mitigation Plan Submitted On:

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: May 08, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

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NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Entity Information

Identify your organization:	
Entity Name:	
NERC Compliance Registry ID:	
Address:	

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

Violation(s)

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Violation ID	Date of Violation	Requirement		
Requirement Description				
RFC2017017547	05/01/2017	CIP-006-6 R1.		
Each Responsible Entity shall implement one or more documented physical security plan(s) that collectively include all of the applicable requirement parts in CIP-006-6 Table R1 – Physical Security Plan.				

Brief summary including the cause of the violation(s) and mechanism in which it was identified: Brief Description: (What happened?) employees conducted a monthly On March 16, 2017, Physical Security Perimeter (PSP) doors. These tests include testing for anything that could cause the door to send alarms, such as door forced, door propped and invalid access attempts. In the of two doors failed to alarm for both forced door and PSP, it was identified that one (propped door. Alarms monitoring for invalid access attempts continued to function. Badge card readers continued to function properly. The failure was documented on the barrier inspection form. No other actions were taken at that time. process for barrier inspections includes documenting any failures on the barrier inspection form, creating a maintenance ticket in the tool, activating alternate measures and maintaining alternate measures until repairs and retesting have been completed. On April 10, 2017, conducted an internal audit and identified one barrier form for indicating testing failures. The form was further investigated by by checking for required maintenance tickets. was unable to identify a maintenance ticket for the failure at management conducted additional testing verifying that propped and forced door alarms were not being received Following process alternate measures were activated and a maintenance ticket was created. conducted initial maintenance by pushing configuration files to the system for This action resulted in the door resuming all alarming functions. Alternate measures were then ended and was notified of the potential violation. management reviewed configuration push conducted on On April 11, 2017, and concluded the need for additional inspection by the door vendor. Alternate measures were activated and the door vendor was contacted. The vendor inspected the door and determined the root cause of the failure of the alarming function to be a wiring issue. Wires that were responsible for sending alarms were improperly installed and caused shortages due to improper insulation. The vendor made repairs to the door wiring at inspected and made adjustments to wiring at the other door in the PSP in order to mimic wiring configuration at both doors. Both doors were tested and all alarming resumed functioning. On April 17, 2017, Two Contract employees received disciplinary action by the contracting agency. On April 20, 2017, following an investigation, one contract employee was removed from the position by the contract agency and the other contract employee was removed from the conducted an at which time it was determined that alternate On April 21, 2017, and measures were no longer needed at Cause: (what caused the violation?) The root cause of this violation was determined to be a human performance error. inspections was not followed even though the employees were trained and had access to the process. How was the violation discovered? The potential violation was discovered during an internal audit by Results of the RCA: (What is the root cause?)

The root cause of this violation was determined to be a human performance error.

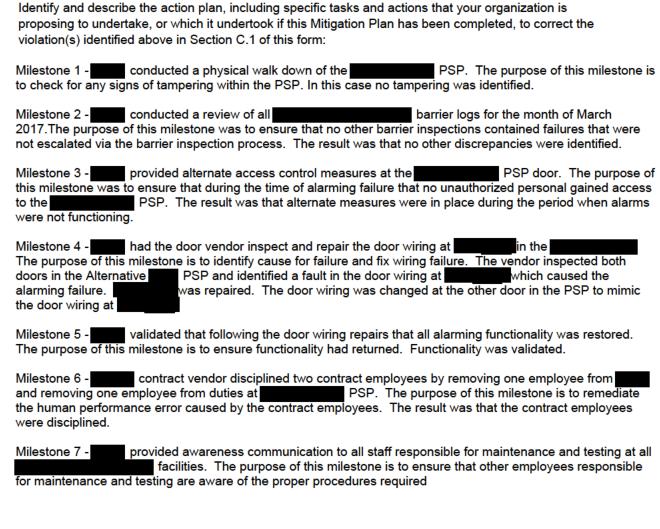
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NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Relevant information regarding the identification of the violation(s):

This violation was identified during an internal audit conducted by Although there was a loss of forced and propped door alarming functionality at one door in the PSP, alarming for invalid access attempts continued functioning during the entire violation period.

Plan Details



Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: May 08, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Repair Door wiring	had the door vendor inspect and repair door wiring at in the	04/11/2017	04/11/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	purpose of this milestone is to identify cause for failure and fix wiring failure.				
Verify alarming functionality	validated that following door wiring repairs that all alarming functionality was restored. The purpose of this milestone is to ensure functionality has returned.	04/11/2017	04/11/2017		No
Discipline two contract employees	contract vendor disciplined two contract employees by removing one employee from and removing one employee from duties at PSP. The purpose of this milestone is to remediated the human performance error caused by the contract employees.	04/20/2017	04/20/2017		No
Perform Alternate Measures	provided alternate measures at the PSP door. The purpose of this milestone is to ensure that during the time of alarming failure that no unauthorized personal gained access to the	04/26/2017	04/26/2017		No
Conduct Physical walk down of PSP	conducted a physical walk down of the PSP. The purpose of	04/28/2017	04/28/2017		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	this milestone is to check for any signs of tampering within the PSP.				
Review all barrier logs for March 2017	conducted a review of all barrier logs for the month of March 2017. The purpose of this milestone is to ensure that no other barrier inspections contained failures that were not escalated via the barrier inspection process.		04/28/2017		No
Reinforcement of procedures	provided awareness of the maintenance and testing procedures to all staff responsible for maintenance and testing at all facilities.	05/08/2017	05/08/2017		No

Additional Relevant Information

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NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

has not identified any additional risk to the BPS. maintains a robust testing and maintenance program that requires barrier inspection testing to be completed monthly at all facilities. This practice is above and beyond the required bi-annual testing and is used to ensure proper maintenance of equipment at all facilities. Additionally, at the time that the violation was identified it was confirmed that alarming for invalid access attempt continued to function and alternate measures were immediately instituted per the testing and maintenance program.
Prevention
Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur
In order to address future BPS reliability risk has taken several steps to both address the violation identified in this mitigation plan and to prevent possible reoccurrences of this violation. The wiring enhancements made to both doors in the PSP will ensure wiring uniformity and functionality of all alarming. The discipline issued to two contract employees along with the to reinforce commitment to the reliability and security of the BPS.
Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- Agrees to be bound by, and comply with, this Mitigation
 Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,

and if required, the applicable governmental authority.				
Authorized Individual Signature:				
(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)				
Authorized Individual				
Name:				
Title:				
Authorized On:				

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017017547

Mitigated Standard Requirement(s): CIP-006-6 R1.

Scheduled Completion as per Accepted Mitigation Plan: May 08, 2017

Date Mitigation Plan completed: May 08, 2017

RF Notified of Completion on Date:

Entity Comment:

	Additional Documents				
From	Document Name	Document Name Description			
Entity	RFC2017017547 Certification.zip	The file "RFC2017017547 Certification.zip" contains: RFC2017017547 Certification cover page.pdf - cover page for overall package. Milestone 1 - Submit.pdf - evidence supporting milestone 1	21,606,566		
		Milestone 2- Submit.pdf - evidence supporting milestone 2			
		Milestone 3 - Submit.pdf - evidence supporting milestone 3			
		Milestone 4 - Submit.pdf - evidence supporting milestone 4			
		Milestone 5 - Submit.pdf - evidence supporting milestone 5			
		Milestone 6 - Submit.pdf - evidence supporting milestone 6			
		Milestone 7 - Submit.pdf - evidence supporting milestone 7			
Entity	File 2 RFC2017017547 -		4,640,166		

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NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

	Additional Documents			
From	Document Name	Description	Size in Bytes	
Entity	Response to Milestone Questions.pdf		4,640,166	
Entity	File 3 RFC2017017547 - Response questions cover.pdf		561,166	
Entity	RFC2017017547 Updated milestones 4 5 and 6.zip	RFC2017017547 Updated milestones 4 5 and 6	48,754,776	

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:	
Title:	
Email:	
Phone:	
Authorized Signature	Date
	pal Office via CDMS For Electronic Signature Policy see CMEP)

Mitigation Plan Verification for RFC2017017547

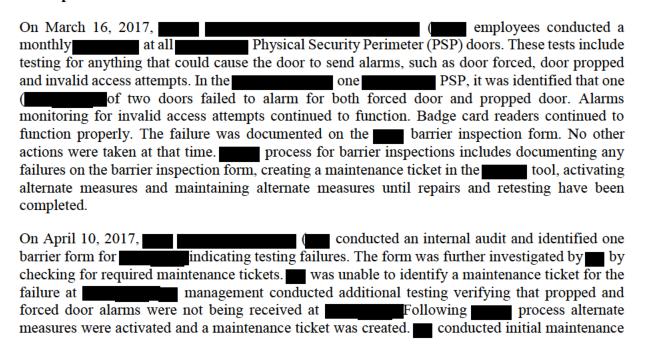
Standard/Requirement: CIP-006-6 R1

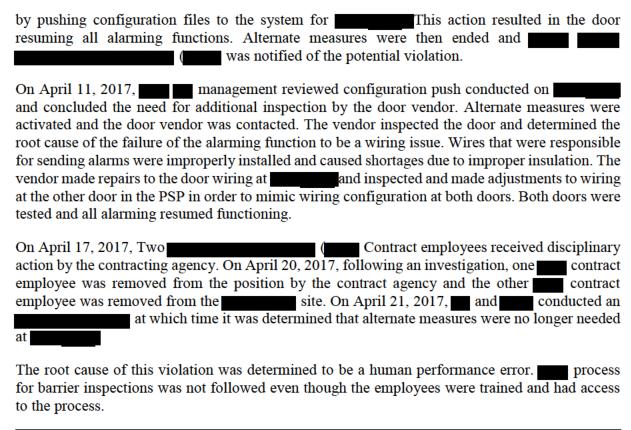
NERC Mitigation Plan ID: RFCMIT012890

Method of Disposition: Settlement Agreement

Relevant Dates							
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion		
Self-Report					05/08/17		

Description of Issue





Evidence Reviewed				
File Name	Description of Evidence	Standard/Req.		
File 1	RFC2017017547 Certification	CIP-006-6 R1		
File 2	RFC2017017547 Response to Milestone	CIP-006-6 R1		
	Questions			
File 3	RFC2017017547 Response questions cover	CIP-006-6 R1		
File 4	RFC2017017547 Updated Milestone 4, 5 and	CIP-006-6 R1		
	6			

Verification of Mitigation Plan Completion

Milestone 1: Repair Door wiring.

File 1, "RFC2017017547 Certification", Milestone 1 Submit, Pages 2 and 3, show a detailed bill from the vendor (describing that they were contacted to perform a troubleshooting and repair on the entity doors as indicated in this milestone.

Milestone # 1 Completion verified.

Milestone 2: Verify alarming functionality.

File 1, "RFC2017017547 Certification Package", Milestone 2 Submit, Pages 2 through 7, show the testing results of the door functionality after repair and prior to placing the door back into service.

Milestone # 2 Completion verified.

Milestone 3: Discipline two contract employees.

File 1, "RFC2017017547 Certification Package", Milestone 3 Submit, Page 1, is a description of the disciplinary action that was taken while Page 2 is a signed attestation stating that disciplinary action was taken.

Milestone # 3 Completion verified.

Milestone 4: Perform Alternate Measures.

File 4, "RFC2017017547 Updated Milestone 4, 5 and 6", Milestone 4 Submit update Pages 1 through 9, and information provided via teleconference show the alternate measures log along with a description of how/ what these alternate measures are and how they were carried out.

The blanks within the evidence are also part of this mitigation plan and the entity did take immediate corrective actions for security officers who did not complete the logs as required.

Milestone #4 Completion verified.

Milestone 5: Conduct Physical walk down of PSP.

File 4, "RFC2017017547 Updated Milestone 4, 5 and 6", Milestone 5 submit update, Pages 2 through 27, show the updated tampering verification log which was discussed in detail via a teleconference with entity staff in regards to ensuring that they are/ were checking for signs of

physical and electronic tampering. Since the teleconference the entity has changed its procedures and policies in order to reflect the checks for electronic and physical checks when in regards to tampering.

Milestone # 5 Completion verified.

Milestone 6: Review all barrier logs for March 2017.

File 4, "RFC2017017547 Updated Milestone 4, 5 and 6", Milestone 6 submit update, Pages 2 through 45, provide Q&A responses from RF to entity in regards to this mitigation plan as well as the testing log with additional callouts that were discussed via teleconference with the entity. The entity has provided additional callouts as to the blank areas in the logs and have since made corrections to their documentation in order to account for items that are not applicable (N/A) instead of leaving them blank and incomplete. This evidence provides account for their door testing sequence and the previous teleconference provided insight into how this testing is conducted.

Milestone # 6 Completion verified.

Milestone 7: Reinforcement of procedures.

File 1, "RFC2017017547 Certification Package", Milestone 7 Submit, Pages 2 and 3, show the training topics and the attendees of the training required by milestone 7.

Milestone # 7 Completion verified.

The Mitigation Plan is hereby verified complete.

Jony lugar

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation

Self Report

NERC ID:

Standard: CIP-006-6 Requirement: CIP-006-6 R1. Date Submitted: August 03, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: May 25, 2017 End/Expected End Date: June 19, 2017

Reliability Functions:

Is Possible Violation still No occurring?:

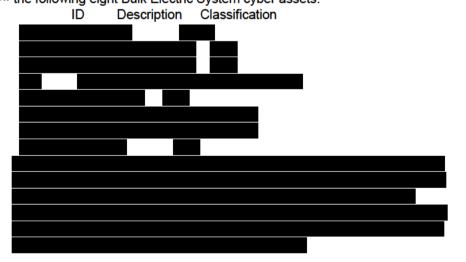
Number of Instances: 1

Has this Possible Violation No been reported to other Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and Detailed Description: The computer room at the contains Cause of Possible Violation: the following eight Bulk Electric System cyber assets:



The exposure was discovered on 6/19/2017 at around 11 am.

No one has reported anything missing or that any equipment has been tampered with.

Page 1 of 3 08/07/2017

Self Report

All PSPs inspected during the walk down were intact expect
PSP.
The exposure was fixed immediately by end of the same day as discovery, 6/19/2017.
Root Cause of Possible Violation:
organization, leading the construction project, was unaware if the construction affects a Physical Security Perimeter (PSP) or is adjacent to a PSP.
How was the violation discovered?
During a NERC walk down, white powder was noticed on the computer room floor at the wall.
Timeline:
9/13/2016: Last walk down of computer room by and and NERC CIP staff. No sign of PSP damage existed.
5/25/2017:
6/19/2017 approximately 11 am: Exposure discovered during walk down of
computer room. 6/19/2017 end of day: Exposure eliminated -
o. 15.25 State and any Exposure communication

Mitigating Activities:

Description of Mitigating Mitigating Activities:

Activities and Preventative 7/25/2017: Per walk down conducted on 7/25/17, verified that no tampering of Measure: the hardware occurred during the period May 25 through July 25.

8/3/2017: Per review of system logs, verify that no breach occurred in the

software during the period May 25 through June 19.

Preventative Measures:

6/20/2017: 8/18/2017: Update and disseminate procedures to address NERC CIP requirements for cyber assets, including informing

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Severe Actual Impact to BPS: Minimal

Description of Potential and The potential impact to the BPS is Severe, as has documented Actual Impact to BPS: and implemented physical access controls, but at least one control did not

exist to restrict access to applicable systems.

The actual impact to the BPS is Lower, as it was verified there were no breaches of the software nor tampering of the hardware during the period of exposure, and the exposure has been eliminated with access to the now blocked. In addition, physical access to is required and this PSP is two layers deep in bigger scheme of physical security at

Risk Assessment of Impact to The potential impact to the BPS is Lower, as it was verified there was no BPS: breach of the software nor tampering of the hardware, and the exposure has been eliminated

> Page 2 of 3 08/07/2017

August 07, 2017

Self Report

Additional Entity Comments:

	Additional Comments		
From	Comment	User Name	
No Comments			

Additional Documents				
From	Document Name	Description	Size in Bytes	
No Documents				

Page 3 of 3 08/07/2017

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code:

Mitigation Plan Version: 1

NERC Violation ID Requirement Violation Validated On
RFC2017018166 CIP-006-6 R1.

Mitigation Plan Submitted On: September 08, 2017

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: November 17, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Page 1 of 8 09/08/2017

Compliance Notices

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- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
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- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:			
Entity Name:			
NEDC Compliance Beginter ID.			
NERC Compliance Registry ID:			
Address:			

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

Page 3 of 8 09/08/2017

Requirement

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Violation(s)

Violation ID

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Date of Violation

	Requirement Description	n			
RFC2017018166	05/25/2017	CIP-006-6 R1.			
	Each Responsible Entity shall implement one or more documented physical security plan(s) that collectively include all of the applicable requirement parts in CIP-006-6 Table R1 – Physical Security Plan.				
Brief summary including the cause of Brief Description: (What happened? The computer room at the	")	anism in which it was identified: llowing eight Bulk Electric System cyber asset			
The exposure was discovered on 6/		Hence violation of CIP006-6 R1 Part 1.2. No one has reported anything missing or			
All PSPs inspected during the walk		PSP.			
The exposure was fixed immediately	y by end of the same day as	s discovery, 6/19/2017.			
The physical security perimeter ("PS		ter room at the PP was broken when			
Cause: (what caused the violation?))				
Results of the (What is the roc org affects a Physical Security Perimeter	ganization, leading the const	truction project, was unaware if the construction			
Relevant information regarding the i	identification of the violation	n(s):			
During a NERC walk down on June	19, 2017, h	noles in them where light was shining through.			

Page 4 of 8 09/08/2017

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

Milestone 1 - Walk down the PSP to verify that no tampering, a visual inspection to validate that there are no dongles or USB devices plugged into the cyber asset hardware, occurred since the exposure on May 25, 2017. All PSPs inspected during the walk down were intact except PSP. As soon as the exposure was discovered, the team worked with the construction contractor to address the problem. The exposure was fixed immediately by end of the same day as discovery, 6/19/2017.
Milestone 2 - Update and disseminate procedures, to address NERC CIP requirements for cyber assets. The purpose of this milestone is to ensure that all Project Managers with are aware of and account for NERC CIP assets in their direct project plans as well as any ancillary areas that may be in contact with their projects. The following Preventive Measures have been put in place: - has been revised to include an item under the General Section that states: If this is a NERC Regulated Site, contact and site Cyber SME to determine if this affects a Physical Security Perimeter (PSP) or is adjacent to a PSP.
- has been revised to include an agenda item that states: Potential NERC/CIP Impact (Y/N) (If Yes, complete Construction Checklist Required Actions.
Milestone 3 - Determine baselines and review logs to verify that no tampering of the cyber asset software occurred during the period May 25, 2017 through June 19, 2017.
Milestone 4 - The record documents, which entail plans and schematics, will be updated when the project is completed. We anticipate the updates to take place by November 17, 2017. The updating of these records will help to ensure in future construction projects that the plenum block will remain intact.

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: November 17, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Verify no tampering of the hardware	Walk down the PSP to verify that no	07/25/2017	07/25/2017		No

Page 5 of 8 09/08/2017

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
	tampering of the cyber asset hardware occurred since the exposure on May 25				
Update procedures	Update and disseminate procedures to address NERC CIP requirements for cyber assets	07/27/2017	07/27/2017		No
Verify no tampering of the software	Oetermine baselines and review (" logs to verify that no tampering of the cyber asset software occurred during the period May 25, 2017 through June 19, 2017	08/18/2017	08/18/2017		No
Update records documents	The records documents, which entail plans and schematics, will be updated to include to prevent access.	11/17/2017			No

Additional Relevant Information

ReliabilityFirst

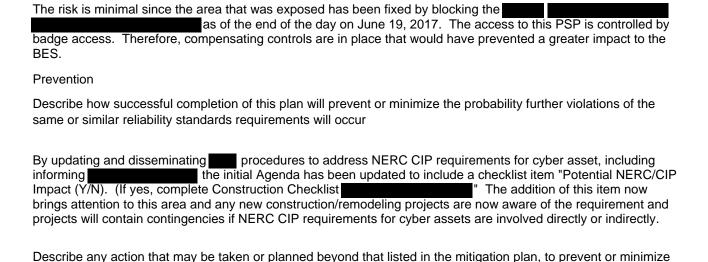
NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

September 08, 2017

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.



the probability of incurring further violations of the same or similar standards requirements

Page 7 of 8 09/08/2017

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO
 remedial action directives as well as ERO documents, including but not limited to, the NERC rules of
 procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

Authorized Individual Signature:

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Title:

Authorized On: September 08, 2017

Page 8 of 8 09/08/2017

November 17, 2017

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017018166

Mitigated Standard Requirement(s): CIP-006-6 R1.

Scheduled Completion as per Accepted Mitigation Plan: November 17, 2017

Date Mitigation Plan completed: November 17, 2017

RF Notified of Completion on Date: November 17, 2017

Entity Comment:

Additional Documents			
From	From Document Name Description Size i		
Entity	RFC2017018166 Certification Package.zip	Attached ZIP file contains the cover sheet of the package and also the supporting evidence of each milestone.	16,449,212

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:	
Title:	
Email:	
Phone:	
Authorized Signature	Date

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Page 1 of 1 11/17/2017

Mitigation Plan Verification for RFC2017018166

Standard/Requirement: CIP-006-6 R1

NERC Mitigation Plan ID: RFCMIT013214

Method of Disposition: Not yet determined

Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report 08/03/17	09/08/17	10/04/17	10/26/17	11/17/17	11/17/17

Description of Issue

Evidence Reviewed			
File Name	Description of Evidence	Standard/Req.	
File 1	RFC2017018166 Certification Package	CIP-006-6 R1	

Verification of Mitigation Plan Completion

Milestone 1: Verify no tampering of the hardware.

Proposed Completion Date: July 25, 2017

Actual Completion Date: May 25, 2017

File 1, "RFC2017018166 Certification Package", Milestone 1- Submit, Pages 2 through 6, show the results of the physical walk-down to verify that there was no tampering of assets physically.

Milestone # 1 Completion verified.

Milestone 2: Update procedures.

Proposed Completion Date: July 27, 2017

Actual Completion Date: July 27, 2017

File 1, "RFC2017018166 Certification Package", Milestone 2- Submit, Pages 2 through 20, provide documentation particularly a checklist (Page 3 section 7) in regards to contacting and a cyber SME in the event that a PSP and or adjacent location will be affected. In addition, new instruction for notifying construction managers was sent out to affected parties to notify them of procedural changes in this regard.

Milestone # 2 Completion verified.

Milestone 3: Verify no tampering of the software.

Proposed Completion Date: August 18, 2017

Actual Completion Date: August 18, 2017

File 1, "*RFC2017018166 Certification Package*", Files 3- Submit, Page 5 through 116, shows the results of the affected assets showing that no deviation from the existing baseline existed.

Milestone # 3 Completion verified.

Milestone 4: Update records documents.

Proposed Completion Date: November 17, 2017

Actual Completion Date: November 6, 2017

File 1, "RFC2017018166 Certific	ation Package",	Milestone 4	4- Submit,	Page 2,	shows	the
architectural drawing showing			in order	to prevei	nt access	s as
determined by this milestone in reg	ards to updating t	he records an	nd documen	its.		

Milestone # 4 Completion verified.

The Mitigation Plan is hereby verified complete.

Date: November 28, 2017

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation

Self Report

NERC ID:
Standard: CIP-006-6

Requirement: CIP-006-6 R1.

Date Submitted: December 14, 2017

Has this violation previously No been reported or discovered?:

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: November 28, 2017

End/Expected End Date:

Reliability Functions:



Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and Incident description

Cause of Possible Violation: On November 28, 2017 at approximately, 4:41 PM, the

at the received an "Invalid Access Attempt" and an immediate second alarm for "Forced entry" from card reader (Door of PSP).

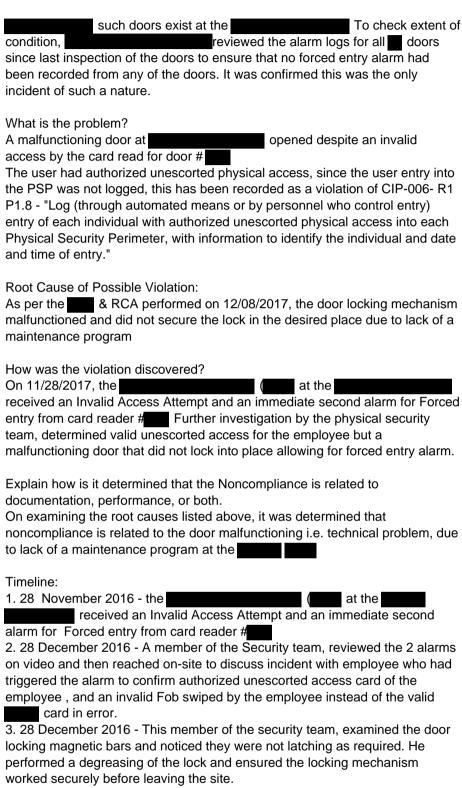
immediately responded to these alarms and when the physical security team reached onsite they confirmed that employee ID that had triggered the invalid access attempt was a employee with authorized unescorted access to the area. However, the employee was carrying multiple cards along with his door access card, the card reader read FOB for his gym access. The card reader denied access and alerted an Invalid access to the first indicates that the card reader was working as required and the Invalid access attempt alert was appropriate. Despite denied access, the door could be pulled open by the employee, who did not realize the access was denied. This triggered the second alarm at for Forced entry.

On investigation by the security personal, the door's locking mechanism was malfunctioning and was not locking into place. The employee was therefore able to pull open the door despite a denied access with the Key FOB.

The security personal who attended to the alarm had seen a video preview of the employee to confirm the incidents causing the alarm. He performed a

Self Report

preventive maintenance on the door immediately following the incident, including degreasing the lock that was preventing it from falling into correct locking mechanism and ensuring the latch was functioning as required following the incident.



Mitigating Activities:

Description of Mitigating Corrective (Immediate) Activities:

Activities and Preventative An immediate corrective maintenance on door with card reader # was Measure: performed following the incident to ensure the door's locking mechanism was working as required. It was checked and corrected to secure entry.

Mitigating Activities:

To Counter the invalid access alarms as a false occurrence, due to multiple cards (such as key fobs and access cards together), a broadcast

Page 2 of 4 12/14/2017

December 14, 2017

Self Report

communication will be circulated to all Employees by 12/15/2017 to ensure they carry their door access cards separate from other readable electronic chips that might cause an Invalid Access Attempt alarms. Alarm log for forced-in and forced-out instances for all reviewed for similar forced entry alarms to ensure no malfunctioning of the door mechanism could have caused a potential insecure unlogged entry into the PSP. The logs were reviewed since the last reported inspection performed at the door. No such incident was identified in this review. Preventative Measures: To ensure that the doors functions as required, a maintenance contract with a service provider for all doors located in the finalized by 12/31/2017. This maintenance would include maintenance and repair to avoid malfunctioning of the doors, including the locking mechanism. Once the maintenance contract is finalized, the details of the contract would be entered into a WO to monitor the Project Management of the execution of the contract for all doors.

A SWI for the maintenance program of the doors will be created.

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Minimal

Actual Impact to BPS: Minimal

Description of Potential and Actual Impact

Actual Impact to BPS: Since the user had authorized unescorted access granted to the PSP, his entry

into the door did not cause any risk. The door logs were also reviewed since last inspection to check for similar forced alarm entries. Post review, it was

confirmed that there are no alarms since last inspection.

Potential Impact

Potential impact of a forced entry alarm to a PSP was low since the user had authorized unescorted access and was a daily worker in the

Risk Assessment of Impact to The risk assessed to the BES is low based on access level of the employee

BPS: who triggered the alarm and a review of all alarm logs at to determine no such incident that been recorded for door malfunctioning causing a forced door alarm since last inspection performed on the doors in December 6, 2017.

Additional Entity Comments:

Additional Comments				
From	Comment	User Name		
No Comments				

Additional Documents

Page 3 of 4 12/14/2017

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December 14, 2017

Self Report

From	Document Name	Description	Size in Bytes
No Docume	nts		

Page 4 of 4 12/14/2017

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code:
Mitigation Plan Version: 1

NERC Violation ID Requirement Violation Validated On
RFC2017018857 CIP-006-6 R1.

Mitigation Plan Submitted On: January 08, 2018

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: January 12, 2018

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Page 1 of 9 01/09/2018

January 09, 2018

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

Entity Information

Identify your organization:					
Entity Name:					
NERC Compliance Registry ID:					
Address:					

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

Page 3 of 9 01/09/2018

Requirement

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Violation(s)

Violation ID

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Date of Violation

Requirement Description

RFC2017018857	11/28/2017	CIP-006-6 R1.			
Each Responsible Entity shall implement one or more documented physical security plan(s) that collectively include all of the applicable requirement parts in CIP-006-6 Table R1 – Physical Security Plan.					
Brief summary including the cause	of the violation(s) and mecha	nism in which it was identified:			
On November 28, 2017 at approximal received an "Invalid Access Attempt (Door of PSP) immediately responded to the sthat employee ID that had triggered authorized unescorted access to the access attempt alert was appropriate who did not realize the access was On investigation by the security per into place. The employee was there The security personnel who attended incidents causing the alarm. He per incident, including degreasing the left ensuring the latch was functioning as such doors exist at reviewed the alarm logs for all alarm had been recorded from any What is the problem? A malfunctioning door at The user had authorized unescorted been recorded as a violation of CIP entry) entry of each individual with a with information to identify the individual Root Cause of Possible Violation: As per the RCA performed of the lock in the desired place due to Explain how is it determined that the	nately, 4:41 PM, the "" and an immediate second a se alarms and when the phys the invalid access attempt w e area. However, the employe eader read FOB for his gym a This indicates that the card te. Despite denied access, the denied. This triggered the se sonnel, the door's locking me fore able to pull open the doo ed to the alarm had seen a vic formed a preventive maintena ock that was preventing it from as required following the incid the To o I doors since last inspectio of the doors. It was confirmed authorized unescorted physic didual and date and time of en on 12/08/2017, the door locking lack of a maintenance progra e Noncompliance is related to d above, it was determined the	alarm for "Forced entry" from card reader # sical security team reached onsite they confirmed as a employee with ewas carrying multiple cards along with his access. The card reader denied access and denied reader was working as required and the Invalidate door could be pulled open by the employee, conditional alarm at for Forced entry. The schanism was malfunctioning and was not locking or despite a denied access with the Key FOB. The deopreview of the employee to confirm the ance on the door immediately following the infalling into correct locking mechanism and tent. The check extent of condition, in the doors to ensure that no forced entry denied access by the card read for door # Suser entry into the PSP was not logged, this has an automated means or by personnel who control all access into each Physical Security Perimeter, try." The mag mechanism malfunctioned and did not secure and of documentation, performance, or both, at noncompliance is related to the door			
1. 28 November 2016 - the accordance of the Security team, reviewed the 2 alarms on video and then reached on-					
to discuss incident with employee we the employee, and an invalid Fobs 3. 28 December 2016 - This member	who had triggered the alarm to ewiped by the employee inste- er of the security team, examing the performed a degreasing of	confirm authorized unescorted access card of			

Page 4 of 9 01/09/2018

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

FROM THIS PUBLIC VERSION January 09, 2018 Relevant information regarding the identification of the violation(s): On 11/28/2017, the received an Invalid Access Attempt at the and an immediate second alarm for Forced entry from card reader # Further investigation by the physical security team, determined valid unescorted access for the employee but a malfunctioning door that did not lock into place allowing for forced entry alarm.

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:

Mitigating Activity: Milestone 1: Review alarm log for forced-in and forced-out instances for all doors. Purpose of this milestone is to verify that the similar condition did not exist on any other door. The review was performed for the period of last inspection to current date. All the doors were found functioning without any issues. This review was performed by analyst in The evidence will be review of logs for all the PSP doors in Preventative activities: The milestones below directly address the root cause and help reduce the risk of such occurrences in future. Milestone 2: A SWI for the maintenance program of the doors will be created. Purpose of this SWI is to help the assignee of the WO to perform the work. Milestone 3: The WO is a required artifact to perform any and all the jobs in the mitigation, will create a recurring Work Order (WO) in for monthly maintenance of all PSP doors. Purpose of this milestone is to ensure that every month a WO is assigned by the system (no human interaction) without a failure. The assignee will perform the work and will have to close the WO otherwise will create an automatic escalation.

Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: January 12, 2018

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Review alarm log for forced-in and forced-out instances for all doors.	Purpose: Ensure that a similar condition does not exist on any other door. Evidence: An excel sheet with review from	12/13/2017	12/13/2017		No
Develop SWI for the maintenance program of the doors	Purpose: Help the assignee of the WO to perform the work. Evidence: A newly created SWI	12/21/2017	12/21/2017		No

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Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Create a recurring Work Order (WO) in for monthly maintenance of all PSP doors	Purpose: Ensure that WO is issued and Preventive Maintenance is performed. The SWI noted in last milestone is reviewed/provided as Pre-Specification with monthly WO. Evidence: A recurring Work Order	01/12/2018			No

Additional Relevant Information

ReliabilityFirst

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

January 09, 2018

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

Based on the review of logs of all the doors does not see any risk or a negative impact as all other doors functioned without a failure. All the processes and procedures for alarming, alerting and performing an immediate preventive maintenance worked as designed.

Prevention

Describe how successful completion of this plan will prevent or minimize the probability further violations of the same or similar reliability standards requirements will occur

A monthly preventive maintenance will reduce the risk of occurrence of similar issues in future.

Describe any action that may be taken or planned beyond that listed in the mitigation plan, to prevent or minimize the probability of incurring further violations of the same or similar standards requirements

This activity was completed on 12/08/2017.

Communicate to all the employees in the doving advising them to carry the door access key separate from other access cards or key fobs. Purpose of this milestone to raise the awareness that the non decrease acreds or key fobs. Purpose of this milestone to raise the awareness that the non decrease acreds or key fobs. Purpose of this milestone to raise the awareness that the non decrease acreds or key fobs.

Page 8 of 9 01/09/2018

Authorization

An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:

- * Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
- * if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.

Acknowledges:

- 1. I am qualified to sign this mitigation plan on behalf of my organization.
- I have read and understand the obligations to comply with the mitigation plan requirements and ERO remedial action directives as well as ERO documents, including but not limited to, the NERC rules of procedure and the application NERC CMEP.
- 3. I have read and am familiar with the contents of the foregoing Mitigation Plan.

Agrees to be bound by, and comply with, this Mitigation
Plan, including the timetable completion date, as accepted by the Regional Entity, NERC,
and if required, the applicable governmental authority.

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Authorized Individual

Name:

Authorized Individual Signature:

Authorized On: January 08, 2018

Page 9 of 9 01/09/2018

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:

NERC Registry ID:

NERC Violation ID(s): RFC2017018857

Mitigated Standard Requirement(s): CIP-006-6 R1.

Scheduled Completion as per Accepted Mitigation Plan: January 12, 2018

Date Mitigation Plan completed: January 05, 2018

RF Notified of Completion on Date: January 31, 2018

Entity Comment:

Additional Documents				
From	Document Name	Description	Size in Bytes	
Entity	RFC2017018857 Certification Package.zip	Zip file "RFC2017018857 Certification Package" contains cover page for the package and also supporting evidence for each milestone.	1,839,982	

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:		
Title:		
Email:		
Phone:		
Authorized Signature	Date	
(Electronic signature was received by the Regional Office	via CDMS. For Electronic Signature Policy see CMEF	2.)

Page 1 of 1 02/01/2018

Mitigation Plan Verification for RFC2017018857

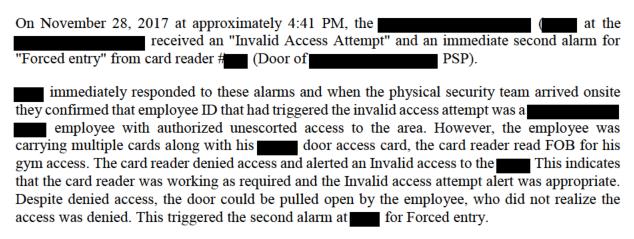
Standard/Requirement: CIP-006-6 R1

NERC Mitigation Plan ID: RFCMIT013482

Method of Disposition: Not yet determined

Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report 12/14/17	01/08/18	01/30/18	02/15/18	01/31/18	01/09/18

Description of Issue



The door's locking mechanism was malfunctioning and was not locking into place. The employee was therefore able to pull open the door despite a denied access with the Key FOB. The security personnel performed preventive maintenance on the door immediately following the incident, including degreasing the lock that was preventing it from falling into correct locking mechanism and ensuring the latch was functioning as required following the incident.

Evidence Reviewed		
File Name	Description of Evidence	Standard/Req.
File 1	RFC2017018857 Certification Package	CIP-006-6 R1
File 2	RFC2017018857	CIP-006-6 R1
	Additional questions Response	
File 3	RFC2017018857 Additional Data on request	CIP-006-6 R1

Verification of Mitigation Plan Completion

Milestone 1: Review alarm log for forced-in and forced-out instances for all doors.

Proposed Completion Date: December 13, 2017

Actual Completion Date: October 26, 2017

File 1, "RFC2017018857 Certification Package", Milestone1- Submit, Pages 1 through 4, show that door alarm log was reviewed. This item provides a sampling of the door records that were reviewed out of the

Additional information provided via Data request. File 3, "RFC2017018857 Additional Data on request", file containing Milestone 3- Submit, Pages 1 through 10, contains additional door samples that yielded no negative results per request and per milestone 1.

Milestone # 1 Completion verified.

Milestone 2: Develop SWI for the maintenance program of the doors.

Proposed Completion Date: December 21, 2017

Actual Completion Date: January 9, 2018

File 1, "RFC2017018857 Certification Package", Milestone 2- Submit, Pages 4 through 10, which is a work instruction describing preventative maintenance in regards to CIP doors as determined in this milestone.

Milestone # 2 Completion verified.

Milestone 3: Create a recurring Work Order (WO) in property for monthly maintenance of all PSP doors.

Proposed Completion Date: January 12, 2018

Actual Completion Date: December 16, 2017

File 3, "RFC2017018857 Additional Data on request", Milestone 3- Submit Page 3, shows the tasks created until April in order to maintain the doors as required by this milestone. Page 2 shows the configuration of that work order showing its frequency and frequency units.

Milestone # 3 Completion verified.

The Mitigation Plan is hereby verified complete.

Date: March 10, 2018

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation FROM THIS PUBLIC VERSION

Attachment 8

Record documents for the violations of CIP-007-3a R3

8.a	The Entity's Self-Report (RFC2016016341);
8.b	ReliabilityFirst's Verification of Mitigating Activities Completion dated
	;
8.c	The Entity's Self-Report (RFC2016016342);
8.d	The Entity's Mitigation Plan designated as RFCMIT012397-1 submitted
	;
8.e	The Entity's Certification of Mitigation Plan Completion dated ;
8.f	ReliabilityFirst's Verification of Mitigation Plan Completion dated

Self Report

Entity Name:

NERC ID:

Standard: CIP-007-6

Requirement: CIP-007-6 R2.

Has this violation previously No been reported or discovered?:

Date Submitted: |

Entity Information:

Joint Registration Organization (JRO) ID:

Coordinated Functional Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: July 01, 2016 Changed to February 9, 2015

End/Expected End Date: October 05, 2016

Region Initially Determined a

Violation On:

Reliability Functions:

Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other

Regions?:

Date Reported to Regions:

Which Regions:

Detailed Description and On January 9, 2015 released a Patch addressing the Cause of Possible Violation: following vulnerabilities within the

The recommended solution was "to upgrade to as part of your normal patch management cycle".

The servers in environment were affected by the vulnerability due to a custom version of running on them. This release was issued outside normal patch release process (i.e.). The SME installed the patch on servers on August 17, 2016 (normal patch release valuation of the patch.

The root causes was determined to be process gap (process did not consider off-cycle patching).

Mitigating Activities:

Self Report

Description of Mitigating Mitigating Activities: All oth	er patches released by using standard release
) were evaluated and the applicable patches were
Measure: applied to the systems or i	ncluded in a mitigation plan.

Preventative Measures:

- 1) the patching process was updated to include off-cycle patching notifications,
- 2) the patch was applied, and
- 3) Patching-were conducted by Business Unit and will included all employees involved in patching.

Date Mitigating Activities October 05, 2016 Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Moderate
Actual Impact to BPS: Minimal

Description of Potential and The Potential and Actual Impact to the BES is low. To exploit any of the four Actual Impact to BPS: vulnerabilities, the individual needs to be inside the network and have access

to the server.

Risk Assessment of Impact to BPS: identifies that that potential impact to the BES is low. has not experienced any negative impact to its Bulk Electric System assets as a result of this potential violation.

Additional Entity Comments:

	Additional Comments	
From	Comment	User Name
No Comme	nts	

Additional Documents				
From	From Document Name Description Size in Bytes			
No Docume	ents			

Mitigating Activities Verification for RFC2016016341

Standard/Requirement: CIP-007-6 R2 Changed to CIP-007-3a R3

NERC Registry ID:

Method of Disposition: Not yet determined

Relevant Dates				
Initiating Document Submittal of Activities		RF Acceptance	Date of Completion	
Self-Report				
			10/05/16	

Description of Issue

On January 9, 2015 released a within the	Patch addressing the following vulnerabilities
•	
The recommended solution was to upgrade to management cycle.	as part of normal patch
due to a custom version of running on them	conment were affected by the vulnerability vulnerability. This release was issued outside normal SME installed the patch on without a formal evaluation of the patch.

The root causes was determined to be process gap (process did not consider off-cycle patching).

Evidence Reviewed		
File Name Description of Evidence Standard/Req.		
File 1	RFC2016016431- Additional Information	CIP-007-6 R2
File 2	Mitigating Activities	CIP-007-6 R2

Verification of Mitigation Plan Completion

Milestone 1: All other patches released by using the standard release process (i.e. were evaluated and the applicable patches were applied to the systems or included in a patching mitigation plan as of September 9, 2016.

File 1, "RFC2016016431- Additional Information", Pages 2 through 27, illustrate the evidence that was previously missing showing the evaluation of patches and whether they were installed or not. If not, this document shows their disposition and explanation as to why patches could not be installed.

Milestone # 1 Completion verified.

Milestone 2: The patching process was updated to include off-cycle patching notifications.

File 2, "Mitigating Activities", MA 1) 6 R2 Patch Management SWI, Pages 3 and 4, sections 2.1.1 through 2.1.4 illustrate the entity's new process for patch evaluation. This update process previously created July 21, 2016 and was the reason that the entity successfully found this incident.

Milestone # 2 Completion verified.

Milestone 3: The patch was applied.

File 2, "*Mitigating Activities*", MA 2 CO 23976, pages 1 through 2 show the change order in which the entity deployed (page 1) and installed (Page 2) the patch.

Milestone # 3 Completion verified.

<i>Milestone 4:</i> Patching compliance—were conducted by Business Unit that included all employees involved in patching by October 5, 2016.
File 2, " <i>Mitigating Activities</i> ", MA 3a) Patch Management Program Compliance Stand- FINAL, Pages 1 through 3, show the topics covered by the entity in their meetings.
File 2, "Mitigating Activities", MA 3b) ———————————————————————————————————
File 2, " <i>Mitigating Activities</i> ", MA 3c) 20161006064118581, Page 1, shows the facility sign in sheet for the previously mentioned
File 2, " <i>Mitigating Activities</i> ", MA 3d) Network Eng – Oct5 NERC CIP patching sign in sheet, Page 1, shows the sign in sheet for the previously mentioned standdown.
File 2, "Mitigating Activities", MA 3e) patching patching Page 1, shows the sign in sheet for the previously mentioned
Milestone #4 Completion verified.
The Mitigating Activities is hereby verified complete.
Date:
Kristen Senk Senior Counsel ReliabilityFirst Corporation

Self Report

Entity Name:

NERC ID:

Standard: CIP-007-6

Requirement: CIP-007-6 R2.

Has this violation previously No been reported or discovered?:

Date Submitted: |

Entity Information:

Joint Registration Organization (JRO) ID: Coordinated Functional

Registration (CFR) ID:

Contact Name:

Contact Phone:

Contact Email:

Violation:

Violation Start Date: July 01, 2016 End/Expected End Date: October 28, 2016

Region Initially Determined a

Violation On:

Reliability Functions:

Is Possible Violation still No occurring?:

Number of Instances: 1

Has this Possible Violation No been reported to other

Regions?:

Which Regions:

Date Reported to Regions:

Detailed Description and Prior to September 2016, the only listed patch sources for all Cause of Possible Violation: workstations, was The supported by supported software. Historically workstations used as patch sources, however since the workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation, several different programs have been installed (e.g. workstation's installation).

Mitigating Activities:

Description of Mitigating Mitigating Activities:

Activities and Preventative 1) the patch source template was reviewed by the patching team and Measure: updated to show the correct patch source vendors, (Complete)

- 2) the patch sources were reviewed for applicable patches (Complete) and
- 3) all applicable patches were installed via change order .(Complete)

Changed to October 1, 2010

Preventative Measure: On 10/13/16, a meeting will be held to conduct a C3

Self Report

session among SMEs to share current practice related to determining software patch source.

Date Mitigating Activities Completed:

Impact and Risk Assessment:

Potential Impact to BPS: Minimal Actual Impact to BPS: Minimal

Description of Potential and The Potential and Actual Impact to the BES is low. If there are any exploitable

Actual Impact to BPS: vulnerabilities the individual would at least need access to the

workstation.

Risk Assessment of Impact to BPS: identifies that that potential impact to the BES is low. has not experienced any negative impact to its Bulk Electric System assets as a result of this potential violation.

Additional Entity Comments:

Additional Comments				
From	Comment	User Name		
No Comments				

Additional Documents					
From Document Name Description Size in Bytes					
No Documents					

Mitigation Plan

Mitigation Plan Summary

Registered Entity:

Mitigation Plan Code: Mitigation Plan Version: 2

NERC Violation ID Requirement Violation Validated On RFC2016016342 CIP-007-6 R2. Changed to CIP-007-3a R3

Mitigation Plan Submitted On:

Mitigation Plan Accepted On:

Mitigation Plan Proposed Completion Date: July 31, 2017

Actual Completion Date of Mitigation Plan:

Mitigation Plan Certified Complete by On:

Mitigation Plan Completion Verified by RF On:

Mitigation Plan Completed? (Yes/No): No

Compliance Notices

Section 6.2 of the NERC CMEP sets forth the information that must be included in a Mitigation Plan. The Mitigation Plan must include:

- (1) The Registered Entity's point of contact for the Mitigation Plan, who shall be a person (i) responsible for filing the Mitigation Plan, (ii) technically knowledgeable regarding the Mitigation Plan, and (iii) authorized and competent to respond to questions regarding the status of the Mitigation Plan. This person may be the Registered Entity's point of contact described in Section B.
- (2) The Alleged or Confirmed Violation(s) of Reliability Standard(s) the Mitigation Plan will correct.
- (3) The cause of the Alleged or Confirmed Violation(s).
- (4) The Registered Entity's action plan to correct the Alleged or Confirmed Violation(s).
- (5) The Registered Entity's action plan to prevent recurrence of the Alleged or Confirmed violation(s).
- (6) The anticipated impact of the Mitigation Plan on the bulk power system reliability and an action plan to mitigate any increased risk to the reliability of the bulk power-system while the Mitigation Plan is being implemented.
- (7) A timetable for completion of the Mitigation Plan including the completion date by which the Mitigation Plan will be fully implemented and the Alleged or Confirmed Violation(s) corrected.
- (8) Implementation milestones no more than three (3) months apart for Mitigation Plans with expected completion dates more than three (3) months from the date of submission. Additional violations could be determined or recommended to the applicable governmental authorities for not completing work associated with accepted milestones.
- (9) Any other information deemed necessary or appropriate.
- (10) The Mitigation Plan shall be signed by an officer, employee, attorney or other authorized representative of the Registered Entity, which if applicable, shall be the person that signed the Self Certification or Self Reporting submittals.
- (11) This submittal form may be used to provide a required Mitigation Plan for review and approval by regional entity(ies) and NERC.
- The Mitigation Plan shall be submitted to the regional entity(ies) and NERC as confidential information in accordance with Section 1500 of the NERC Rules of Procedure.
- This Mitigation Plan form may be used to address one or more related alleged or confirmed violations of one Reliability Standard. A separate mitigation plan is required to address alleged or confirmed violations with respect to each additional Reliability Standard, as applicable.
- If the Mitigation Plan is accepted by regional entity(ies) and approved by NERC, a copy of this Mitigation Plan will be provided to the Federal Energy Regulatory Commission or filed with the applicable governmental authorities for approval in Canada.
- Regional Entity(ies) or NERC may reject Mitigation Plans that they determine to be incomplete or inadequate.
- Remedial action directives also may be issued as necessary to ensure reliability of the bulk power system.
- The user has read and accepts the conditions set forth in these Compliance Notices.

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Entity Information

Identify your organization:				
Entity Name:				
NERC Compliance Registry ID:				
Address:				

Identify the individual in your organization who will serve as the Contact to the Regional Entity regarding this Mitigation Plan. This person shall be technically knowledgeable regarding this Mitigation Plan and authorized to respond to Regional Entity regarding this Mitigation Plan:

Name:	
Title:	
Email:	
Phone:	

Violation(s)

Violation ID

This Mitigation Plan is associated with the following violation(s) of the reliability standard listed below:

Date of Violation

Requirement

Requirement Description				
RFC2016016342	07/01/2016	CIP-007-6 R2.		
Each Responsible Entity shall implement or applicable requirement parts in CIP-007-6		cess(es) that collectively include each of the anagement.		
Brief summary including the cause of	of the violation(s) and mecha	nism in which it was identified:		
was not reviewed by they were	However, since insta etc.) ere known and listed in the be not patched. The team	ent, which was installed prior to the NERC-CIP allation, several different programs have been to support administrative work on multiple device baseline. However, as the administrative softward did not patch administrative programs that were software versions found, this issue pre-dated		
Cause of Violation The installation of all of the programs installed on the eadministrative packages not being p	equipment under their purvie			
Identification Mechanism During a Mock Audit in June 2016, t the process of removing software th members were in the audience lister software installed on several of their	at was not essential to their s ning to this discussion when	they realized that they have some of the same		
Scope Review (Extent of Condition) On July 16, 2016, discovered to review of all software packages was	that does not cover all s	oftware packages. Upon this discovery, a curso re covered by		
review, multiple software packages	were discovered to not be co	ackages installed on their assets. During the overed by Upon investigation of the primar were several packages that had applicable		
Scope Review (Extent of Condition)	Update			
that have equipment covered by NE have NERC-CIP assets. In addition,	that the Extent of Condition RC-CIP. Therefore, a Patch four new milestones were d itively determine all software	duled and held by the should be expanded to all Business Units (Source Review will be conducted by the eveloped based on the work done by the patch sources and update or mitigate any		
NERC CIP requirements went into p on all of the equipment and this ass	place, made an assump umption was never validated for, will have to review all sof	l. To validation this assumption, someone from t tware packages installed on all Operating		

Systems. The system pre-dates the NERC-CIP requirements and the

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process NERC-CIP asset change control process

for new assets).  

Table 1 Timeline Date Event

May 2008 System Installation

May 2008 - September 2015 Administrative Software packages installed

10/20/15 go live 7/1/16 v5 goes live

7/16/16 Identification of issue

7/16/16 Started review of Patch Source and applicable patches

7/16 - 7/29/16 All other packages and Operating System were patched during monthly patch cycle.

9/29/16 Completed review of Patch Source and applicable patches

10/10/16 Installed patches 10/24/16 Knowledge share 12/07/2016 Effectiveness Review

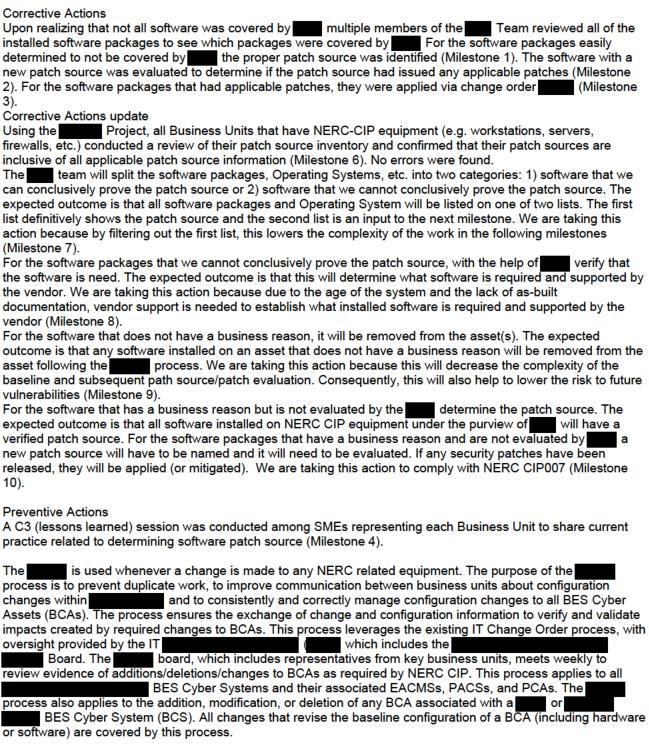
3/07/2017 Extent of Condition review of patch sources

Relevant information regarding the identification of the violation(s):

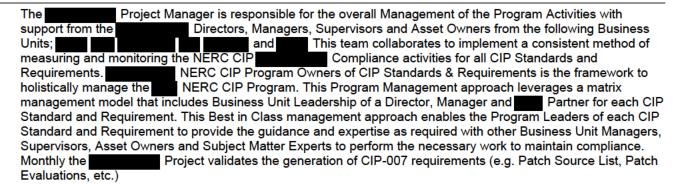
During a Mock Audit, the SME was discussing their patch sources. They were in the process of removing software that was not essential to their system. They were in the audience listening to this discussion when they realized that they have some of the same software and that it was not covered by

Plan Details

Identify and describe the action plan, including specific tasks and actions that your organization is proposing to undertake, or which it undertook if this Mitigation Plan has been completed, to correct the violation(s) identified above in Section C.1 of this form:



Detective Actions



Provide the timetable for completion of the Mitigation Plan, including the completion date by which the Mitigation Plan will be fully implemented and the violations associated with this Mitigation Plan are corrected:

Proposed Completion date of Mitigation Plan: July 31, 2017

Milestone Activities, with completion dates, that your organization is proposing for this Mitigation Plan:

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Revise patch source template	The patch source template was reviewed by the patching team and updated to show the correct patch source vendors	09/09/2016	09/29/2016		No
Evaluate patch new sources	The newly identified patches from third party (non-sources were evaluated for applicability	09/29/2016	09/29/2016		No
Install required patches	All applicable patches were installed via change order 25392.	10/11/2016	10/02/2016		No
Knowledge sharing Session	A meeting will be held to review lessons learned (C3) among SMEs to share current practice related to determining software patch source.	10/24/2016	10/24/2016		No

Milestone Activity	Description	*Proposed Completion Date (Shall not be greater than 3 months apart)	Actual Completion Date	Entity Comment on Milestone Completion	Extension Request Pending
Effectiveness Review	Group review of the taken mitigation activities.	12/07/2016	12/07/2016		No
Extent of Condition review of patch sources	review of current patch sources	03/07/2017	02/28/2017		No
Software Disposition	Split the software packages, Operating Systems, etc. into two categories	03/31/2017			No
Software Verification	Verify that the remaining software is needed	06/30/2017			No
Remove software that is not needed	Remove the unneeded software	07/14/2017			No
Determine patch source and update as necessary	For software with a business reason not covered by identify a new patch source and update (or mitigate) as necessary.	07/31/2017			No

Additional Relevant Information

Milestone Activity Completion Date
Revise patch source 09/09/2016
Evaluate patch sources 09/29/2016
Install required patches 10/11/2016
Knowledge share 10/24/2016
Effectiveness Review 12/07/2016
Extent of Condition review of patch sources 3/07/2017
Software Disposition 3/31/2017
Software Verification 6/30/2017
Remove software that is not needed 7/14/2017
Determine patch source and update as necessary 7/31/2017

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Reliability Risk

Reliability Risk

While the Mitigation Plan is being implemented, the reliability of the bulk Power System may remain at higher Risk or be otherwise negatively impacted until the plan is successfully completed. To the extent they are known or anticipated: (i) Identify any such risks or impacts, and; (ii) discuss any actions planned or proposed to address these risks or impacts.

Authorized On:

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

	has procured as part of the automation of our baseline collection and monitoring which is planned for completion by the end of Q3 2017. The module was also procured and will be installed after the primary product is in place and operational. Even with the initial deployment of will be able to quickly identify the current software and patches installed and via the reporting and monitoring quickly identify issues between the patch evaluation and deployed software automatically instead of by doing manual QA reviews. Once the modules are installed, then will be able to develop a robust vulnerability management program as described above which is planned for completion in the first half of 2018.
Authoriza	ation_
	An authorized individual must sign and date the signature page. By doing so, this individual, on behalf of your organization:
	* Submits the Mitigation Plan, as presented, to the regional entity for acceptance and approval by NERC, and
	* if applicable, certifies that the Mitigation Plan, as presented, was completed as specified.
	Acknowledges:
	1. I am qualified to sign this mitigation plan on behalf of my organization.
	 I have read and understand the obligations to comply with the mitigation plan requirements and ERO remedial action directives as well as ERO documents, including but not limited to, the NERC rules of procedure and the application NERC CMEP.
	3. I have read and am familiar with the contents of the foregoing Mitigation Plan.
	Agrees to be bound by, and comply with, this Mitigation
	Plan, including the timetable completion date, as accepted by the Regional Entity, NERC, and if required, the applicable governmental authority.
Authori	zed Individual Signature:
(Electr	onic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)
Author	rized Individual
	Name:
	Title:

NON-PUBLIC AND CONFIDENTIAL INFORMATION HAS BEEN REMOVED FROM THIS PUBLIC VERSION

Certification of Mitigation Plan Completion

Submittal of a Certification of Mitigation Plan Completion shall include data or information sufficient for the Regional Entity to verify completion of the Mitigation Plan. The Regional Entity may request additional data or information and conduct follow-up assessments, on-site or other Spot Checking, or Compliance Audits as it deems necessary to verify that all required actions in the Mitigation Plan have been completed and the Registered Entity is in compliance with the subject Reliability Standard. (CMEP Section 6.6)

Registered Entity Name:	
NERC Registry ID:	

NERC Violation ID(s): RFC2016016342

Mitigated Standard Requirement(s): CIP-007-6 R2. Changed to CIP-007-3a R3

Scheduled Completion as per Accepted Mitigation Plan: July 31, 2017 Date Mitigation Plan completed: July 31, 2017

RF Notified of Completion on Date:

Entity Comment:

Additional Documents				
From Document Name Description Size in Bytes				
Entity	RFC2016016342 Certification Package.zip	File "RFC2016016342 Certification Package.zip" contains cover page for the package and also the supporting evidence for each milestone.	16,782,942	

I certify that the Mitigation Plan for the above named violation(s) has been completed on the date shown above and that all submitted information is complete and correct to the best of my knowledge.

Name:	
Title:	
Email:	
Phone:	
Authorized Signature	Date

(Electronic signature was received by the Regional Office via CDMS. For Electronic Signature Policy see CMEP.)

Date

Mitigation Plan Verification for RFC2016016342

Standard/Requirement: CIP-007-6 R2 Changed to CIP-007-3a R3

NERC Mitigation Plan ID: RFCMIT012397-1

Method of Disposition: Not yet determined

Relevant Dates					
Initiating Document	Mitigation Plan Submittal	RF Acceptance	NERC Approval	Certification Submittal	Date of Completion
Self-Report					07/31/17

Description of Issue

The equipment, which was installed prior to
the NERC-CIP requirements, was supplied by However, since installation, several
different programs have been installed (e.g.
support administrative work on multiple device types. All of the installed software were known
and listed in the baseline. However, as the administrative software was not reviewed by
were not patched. The team did not patch administrative programs that were added after the
original software was installed. Due to the software versions found, this issue pre-dated v5/v6
implementation.

Evidence Reviewed			
File Name Description of Evidence		Standard/Req.	
File 1	RFC2016016342 Certification Package	CIP-007-6 R2	

Verification of Mitigation Plan Completion

Milestone 1: Revise patch source template.

File 1, "*RFC2016016342 Certification Package*", Milestone 1 Evidence, Pages 3 through 33, show the affected patch source documents with the applicable changes highlighted and bookmarked. Page 2 summarizes the work order used to make the changes, showing completion on September 9, 2016.

Proposed Completion Date: September 9, 2016

Actual Completion Date: September 9, 2016

Milestone # 1 Completion verified.

Milestone 2: Evaluate patch new sources.

File 1, "RFC2016016342 Certification Package", Milestone 2 Evidence, Pages 3 through 78, show the identification and assessment of patches for the newly identified applications. The date of assessment is shown as September 29, 2016.

Proposed Completion Date: September 29, 2016

Actual Completion Date: September 29, 2016

Milestone # 2 Completion verified.

Milestone 3: Install required patches.

File 1, "RFC2016016342 Certification Package", Milestone 3 Evidence, Page 5, shows completion of patching on October 2, 2016. Pages 6 and 7, show details of the changes made to the installed software.

Proposed Completion Date: October 11, 2016

Actual Completion Date: October 2, 2016

Milestone # 3 Completion verified.

Milestone 4: Knowledge sharing session.

File 1, "RFC2016016342 Certification Package", Milestone 4 Evidence, Pages 2 through 8, show a slide deck used at a meeting of SMEs held on October 24, 2016. Page 9, shows the attendee signin for that meeting.

Proposed Completion Date: October 24, 2016

Actual Completion Date: October 24, 2016

Milestone # 4 Completion verified.

Milestone 5: Effectiveness review.

File 1, "RFC2016016342 Certification Package", Milestone 5 Evidence, Page 1, documents an effectiveness review held with and RF staff at the offices on December 7, 2016. Follow-up meetings were held with staff as documented on Pages 3 through 8. A final follow-up with and RF staff was held on a conference call on February 24, 2017.

Proposed Completion Date: December 7, 2016

Actual Completion Date: December 7, 2016

Milestone # 5 Completion verified.

Milestone 6: Extent of Condition review of patch sources.

File 1, "RFC2016016342 Certification Package", Milestone 6 Evidence. Page 2, contains attestations of completion of an extent-of-condition review by all affected asset types, with the latest completion date of February 28, 2017. While use of attestations as evidence of work completed is considered weak, this evidence us supported by more detailed evidence in Milestone 7.

Proposed Completion Date: March 7, 2017

Actual Completion Date: September 29, 2016

Milestone # 6 Completion verified.

Milestone 7: Software disposition.

File 1, "RFC2016016342 Certification Package", Milestone 7 Evidence, Pages 2 and 3, show the list of software known by not to be included in patch report. Pages 4 through 40, contain the list of software for each class of asset that is unsure of. states that this list was submitted to for review. response is evidenced in Milestone 8. No date is included in these reports. However, File 1, "RFC2016016342 Certification Package", Milestone 8 Evidence Page 2, shows opening of a case with support on March 7, 2017 with this information.

Proposed Completion Date: March 31, 2017

Actual Completion Date: March 7, 2017

Milestone # 7 Completion verified.

Milestone 8: Software verification.

File 1, "RFC2016016342 Certification Package", Milestone 8 Evidence, Pages 2 through 5, show a ticket opened with support to identify information about the packages that were listed as "unknown" in Milestone 7. Pages 43 through 125, show evaluation of response to the questions about whether the software was needed and if so, was it included in

patch summary. No dates are included in the evidence. However, File 1, "RFC2016016342 Certification Package", Page 4, of Milestone 9 Evidence shows initiation of a work order to remove software identified by this process as not needed on July 5, 2017.

Proposed Completion Date: June 30, 2017

Actual Completion Date: July 5, 2017

Milestone # 8 Completion verified.

Milestone 9: Remove software that is not needed.

File 1, "RFC2016016342 Certification Package", Milestone 9 Evidence, Pages 3 and 4, show a ticket created to remove software identified as not needed. That software is listed on Page 3. PDF Pages 6 through 1157, show a baseline taken after package removal. Examination of a small sample of software shows that the software in the list was removed. Page 6, shows the baseline date of July 24, 2017.

Proposed Completion Date: July 14, 2017

Actual Completion Date: July 24, 2017

Milestone # 9 Completion verified.

Milestone 10: Determine patch source and update as necessary.

File 1, "*RFC2016016342 Certification Package*", Milestone 10 Evidence, Pages 2 through 554, shows a detailed patch source listing for each applicable system. This patch list shows changes identified by the process in Milestones 7-9. For example, a patch source list from October 2016 shows software as having as a patch source whereas the list provided for this Milestone shows as the patch source. No date is provided in the PDF. However, the PDF itself shows a creation date of July 31, 2017.

Proposed Completion Date: July 31, 2017

Actual	Comp	letion	Date:	Inly	31	2017
Actual	Comp	icuon	Daic.	July	91,	2017

Milestone # 10 Completion verified.

The Mitigation Plan is hereby verified complete.

Date:

Tony Purgar Manager, Risk Analysis & Mitigation ReliabilityFirst Corporation