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FRONTERA ENERGY CENTER Emergency Operations Plan

Issue date: April 12, 2022 Updated: June 5, 2023

A. EXECUTIVE SUMMARY

1. Contents and Policies

Frontera Energy Center ("Frontera") has developed this Emergency Operations Plan ("EOP") in accordance with 16 Tex. Admin. Code ("TAC") § 25.53 Electric Service Emergency Operations Plans, describing the actions to be taken by the organization in response to emergency scenarios outlined by this plan. This EOP and its associated subsections will be used in conjunction with other plant-specific procedures when responding to these emergencies. This EOP also sets forth the specific actions to be taken by Plant Staff and support personnel during a power plant emergency.

Section A of this EOP contains an executive summary that describes the contents and policies contained in the EOP, includes a reference to specific sections and page numbers of the EOP that correspond with the requirements of 16 TAC § 25.53, includes the record of distribution required under 16 TAC § 25.53(c)(4)(A), and contains the affidavit required under 16 TAC § 25.53(c)(4)(C).

Section B of this EOP sets forth Frontera's emergency operations processes and policies applicable to those common operational functions that are relevant across emergency types. It contains a subsection addressing the approval and implementation of the EOP, communications during emergency response, maintenance of pre-identified supplies for emergency response, staffing during emergency response, identification of weather-related hazards, and the process for activating the EOP.

Section C of this EOP contains annexes that outline Frontera's response to specific types of emergencies—specifically, weather emergencies of various types, water shortages, restoration of service, pandemic and epidemic, hurricane, cyber security, and physical security emergencies.

2. Reference to Specific Requirements of 16 TAC § 25.53

Rule Reference	Requirement	Section	Page
§ 25.53(c)(1)(A)(i)	EXECUTIVE SUMMARY	A	2-6
§ 25.53(c)(1)(A)(i)(I)	Contents and Policies	A.1	2
§ 25.53(c)(1)(A)(i)(II)	Reference to Requirements of 16 TAC § 25.53	A.2	3
§ 25.53(c)(1)(A)(i)(III); (c)(4)(A)	Record of Distribution	A.3	4
§ 25.53(c)(1)(A)(I)(IV); (c)(4)(C)	Affidavit	A.4	6
	EMERGENCY OPERATIONS PLAN	в	7-19
§ 25.53(d)(1)	Approval and Implementation	B.1	8
§ 25.53(d)(1)(A)	Introduces EOP and outlines applicability	B.1.1	8
§ 25.53(d)(1)(B)	Individuals responsible for maintaining and implementing the EOP, and those who can change the EOP	B.1.2	8
§ 25.53(d)(1)(C)	Revision control summary	B.1.3	8
§ 25.53(d)(1)(D)	Dated statement that current EOP supersedes previous EOP	N/A. (this is Frontera's first EOP filing)	
§ 25.53(d)(1)(E)	Date EOP was most recently approved	B.1.3	8
§ 25.53(d)(2)(B)	Communication Plan	B.2	9
§ 25.53(d)(3)	Maintenance of Pre-Identified Supplies for Emergency Response	B.3	20
§ 25.53(d)(4)	Staffing During Emergency Response	B.4	11
§ 25.53(d)(5)	Identification of Weather-Related Hazards	B.5	12
§ 25.53(d)(5)	Activation of EOP	B.6	13
§ 25.53(c)(4)(B)	Emergency Contacts	B.9	19
§ 25.53(e)	ANNEXES	c	20-54
§ 25.53(e)(2)(A)	Weather Emergencies	Annex A	21
§ 25.53(e)(2)(B)	Water Shortages	Annex B	28
§ 25.53(e)(2)(C)	Restoration of Service	Annex C	30
§ 25.53(e)(2)(D)	Pandemic & Epidemic Plan	Annex D	31
§ 25.53(e)(2)(E)	Hurricane Procedures	Annex E	37
§ 25.53(e)(2)(F)	Cyber Security	Annex F	43
§ 25.53(e)(2)(G)	Physical Security	Annex G	50
§ 25.53(e)(2)(H)	EOP Compliance	Annex H	54

3. Record of Distribution

Copies of this Frontera Energy Center Emergency Operations Plan have been copied to the following internal and external entities:

- Frontera Energy Center Plant Management Team
- Woodlands Energy Management Corporate Leadership Team
- Public Utility Commission of Texas (PUCT)
- Electric Reliability Council of Texas (ERCOT)

Additionally, the following list of Frontera personnel have received access to, and training on this EOP to the extent applicable:

Last Name	First Name	Position	Work Phone	Date of Access/Training on the EOP	Cell Phone
-					
-					
-					
-					
-					
-					
-					
-					

FRONTERA ENERGY CENTER Emergency Operations Plan



4. Affidavit

STATE OF MINNESOTA . 5 COUNTY OF LOW WING 5

BEFORE ME, the undersigned authority, on this day personally appeared Daniel Hudson who, having been placed under oath by me, did dopose as follows: "My name is Daniel Hudson. I am of legal age and a resident of the State of Minnesota. I am the CEO for Fronters Generation Limited Partnership ("Fronters"). I affirm that the following statements are true and complete, to the best of my knowledge and belief:

- I am the highest-ranking representative, official, or officer with binding authority for Frontera;
- Relevant Froaters operating personnel are familiar with and have received training on the applicable contents and execution of the EOP, and such personnel are instructed to follow the applicable portions of the EOP except to the extent deviations are appropriate as a result of specific circumstances during the course of an emergency;
- 3. The Frontera EOP has been reviewed and approved by the appropriate executives;
- 4. Drills have been conducted to the extent required by subsection (f) of PUCT Subst. R.
- 5. 25.53;
- The Fronters EOP or an appropriate summary has been distributed to local jurisdictions as needed;
- Frontera maintains a business continuity plan that addresses returning to normal operations after disruptions caused by an incident; and
- Frontera's emergency management personnel who are designated to interact with local, state, and federal emergency management officials during emergency events have received the latest IS-100, IS-200, IS-700, and IS-800 National Incident Management SWeem training.

Daniel Hudson

SUBSCRIBED AND SWORN TO BEFORE ME by the eard Daniel Hudson, this <u></u>th day of <u>ブレウ</u> <u>(</u> 2023.

Notary Public, Stata of Minnesota

SHAMMON LARSON INTARY PUBLIC - MORESOTA BY CENT. ED. Je. 31, 2028

B. <u>EMERGENCY OPERATIONS PLAN</u>

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1. Approval and Implementation

1.1 Introduction to EOP

This EOP sets forth the specific actions to be taken by Plant Staff and support personnel during a power plant emergency. This EOP applies to the Frontera Energy Center facility located at the address of 900 S. Goodwin Rd, Mission, TX 78572, Latitude: N 26.22152° Longitude: -98.39835°, and includes any associated ancillary facilities owned by the project.

1.2 <u>Personnel with Responsibility for EOP</u>

The Plant Management under the direction of the Plant Manager is responsible for maintaining and implementing the EOP. The Plant Manager or his designee may make changes to the EOP when necessary.

Plant Management	Phone Number

1.3 Revision Control

Rev.	Date	Description	Initials	Ву	Approval Initials
0	04/12/2022	Rev. 0 for compliance with revised Rule 25.53		JG	VG
1					

2. Communications Plan

- 2.1 Upon activation of the EOP due to an event covered under this plan the active SEM will notify the Plant Management Team if not on site at the time of event. The typical chain of command would be a notification to the Plant Operations Manager followed by the Operations Manager notification to the Plant Manager. The Plant Manager or his designee will make notification to the Woodlands Energy Management Plant Manager or his alternate of the pending or active event as appropriate based on the type and severity of the event. The SEM will communicate and coordinate response actions with local response agencies, officials and emergency operations centers as appropriate for the event circumstances.
- 2.2 The Woodlands Energy Management Leadership Team under the direction of the Plant Manager will manage all communications with outside regulatory entities as appropriate including the news media and public inquiries. The Plant Manager or his designee will be the primary spokesperson for Frontera Energy Center regarding external communications related to incidents outlined in the Emergency Operations Plan. Immediate Media inquiries at the plant location will be directed to the Plant Manager or his designee as appropriate and will communicate these inquiries to the Corporate Leadership Team as appropriate.
- 2.3. The active SEM at the onset of the event or his designee (Control Room Operator) will make the appropriate communications to ERCOT via the Frontera Energy Center designated Qualified Scheduling Entity and/or AEP (Transmission Operator) if plant status has been immediately impacted by the event.
- 2.4 Any written communications in response to inquiries from any outside entities should be routed and reviewed by the appropriate members of the Corporate Leadership Team.
- 2.5 Plant staff shall not respond to outside inquiries related to any events covered under this Emergency Operations Plan.

3. Maintenance of Pre-Identified Supplies for Emergency Response

- 3.1 Frontera maintains an inventory of supplies for response to extreme hot and cold weather events, spill response, and expected consumable items to support O&M personnel needs. Weatherization supplies are inventoried prior to the winter season. Frontera maintains an inventory of spare parts and consumables to support the maintenance and replacement of critical plant equipment to minimize the impact to plant availability.
- 3.2 All exit doors will operate in the direction of exit travel without the use of a key or any special knowledge or effort when the building is occupied.
- 3.3 All exit doors opening directly onto any street, alley, or other areas where vehicles may be operated will have adequate barriers and warnings provided to prevent employees from stepping into the path of traffic.
- 3.4 Exterior exit accessways must be kept clear of snow and ice to allow for egress.

4. Staffing During Emergency Response

The Frontera Energy Center SEM will evaluate the staffing needs of the Emergency Event and will determine the appropriate staffing levels needed to manage the event response. This could include the following as necessary:

- Notifying additional Frontera Management Staff and Employees to respond to the site to support the event response.
- Procuring Contracted Support Companies to support the plant-led event response with additional manpower and/or equipment as required.

Refer to Section 6 of this EOP for additional information regarding the roles and responsibilities of Frontera personnel during emergencies.

5. Identification of Weather-Related Hazards

See ANNEX A for information regarding how Frontera identifies weather-related hazards of various types.

6. Activation of Emergency Operations Plan

6.1 Activation of the EOP

The Frontera Energy Center Site Emergency Manager or active designated SEM is responsible for activating the EOP and determining what actions to take immediately following the occurrence of the events outlined in the EOP. When appropriate, the Frontera Energy Center SEM will make notification to the Woodlands Energy Management Corporate Support Team in accordance with the guidance contained in this Emergency Operations Plan. The Woodlands Energy Management Plant Manager is responsible for determining the appropriate degree of overall corporate response required and implementing those appropriate actions.

6.2 <u>Summary of Roles and Responsibilities</u>

6.2.1 Plant Manager

The Frontera Energy Center Plant Manager is the designated Site Emergency Manager (SEM), with responsibility to provide the necessary authority to commit the appropriate resources to accommodate and follow the EOP. The Plant Manager is the designated Frontera Energy Center representative who will interact with local, state, and federal emergency management officials during emergency events. Other qualified individuals may be designated to act as the SEM in the absence of the Plant Manager as outlined herein. 3.1. Frontera Energy Center Site Emergency Manager (SEM)

6.2.2 Frontera Energy Center Site Emergency Manager (SEM)

Frontera Energy Center shall have a person designated as the Site Emergency Manager (SEM) who will immediately take charge and direct the immediate responses required for any emergency outlined by the Emergency Operations Plan. The on-duty SEM will make the necessary notifications to the Plant Management Team if not present at the time of the event. The Plant Manager or designee will notify the Woodlands Energy Management Corporate Leadership Team of the ongoing or developing concern and will coordinate with the Corporate Leadership Team regarding the appropriate response actions. ACTIVATION?

6.2.3 Woodlands Energy Management Corporate Leadership Team

The Corporate Leadership Team will support the Site Emergency Manager as required to facilitate the appropriate response to emergencies outline by the Emergency Operations Plan. The Plant Manager will be the primary point of contact to the Frontera Energy Center SEM and will solicit and direct other members of the Corporate Leadership Team as appropriate to support the Site Emergency Manager.

The Corporate Leadership Team under the guidance of the Plant Manager will manage all communications with outside entities including the news media and public notifications or inquiries. The Plant Manager or his designee will be the primary spokesperson for Woodlands Energy Management regarding external communications related to incidents outlined in the Emergency Operations Plan.

6.2.4 Operations Manager, Maintenance Manager, Reliability Engineer

The Operations Manager will serve as the primary back-up to the Plant Manager to perform the duties of the SEM in the event the Plant Manager is unavailable. The Operations Manager, Maintenance Manager and Reliability Engineer will support the active SEM in response to the events outlined in the Emergency Operations Plan. The Reliability Engineer is responsible for maintaining and updating this procedure and will coordinate the necessary training and drills in accordance with the plan.

6.2.5 Operations Coordinator, Control Room Operators

The Operations Coordinator will be designated as the SEM in the absence of Plant Management. If the Operations Coordinator is unable to perform the duties of the SEM the Control Room Operator will act on their behalf until the Operations Coordinator or a member of the Plant Management Team properly relieves them of their duties of the SEM.

6.2.6 All Frontera Energy Center Employees

All employees are responsible for gaining an understanding of this procedure by attending training and drills as required. All employees are expected to support response activities for the events outlined under the Emergency Operations Plan as directed by the Frontera Energy Center SEM.

6.3 <u>Events</u>

The following are events included in the scope of the Emergency Operations Plan. The degree of response under the EOP will be determined by the severity of the event, potential consequences, and impact to the facility.

- 6.3.1 Weather
- 6.3.2 Hurricanes
- 6.3.3 Restoration of Services
- 6.3.4 Pandemic
- 6.3.5 Cyber Security Incident
- 6.3.6 Physical Security Incident
- 6.3.7 Water Shortage Incident

6.4 EOP Immediate Actions

The following priorities are to be considered by the Frontera Energy Center SEM in response to events outlined in the Emergency Operations Plan:

- 6.4.1 Personnel Safety
- 6.4.2 Initiate local Emergency Response (911) as appropriate. (EMS, Fire and Police)
- 6.4.3 Environmental and Facility Equipment Protection
- 6.4.4 Communicate facility status to Qualified Scheduling Entity (QSE) as appropriate.
- 6.4.5 Notification to Plant Management Team and Woodlands Energy Management Senior Management
- 6.4.6 Minimize impact to facility restoration and operations.

7. Emergency Response Protocols

7.1 Organization

7.1.1 If an Emergency Operations Plan event occurs the following response organization shall be implemented:

	Initial	Subsequent (If
		Required)
Emergency	Control Room Operator	Site Emergency Manager
Coordinator	/ Control Room	(SEM)
	Operator	
Communications	Control Room Operator	Operations Manager (or their
	/ Control Room	designee)
	Operator	

- 7.1.2 Typical Operations Shift staffing consists of (1) Control Room Operator I, (2) Control Room Operator II. The SEM and Plant Management Team will evaluate any immediate impacts to the facility and add additional in-house and/or contract staffing as required for event response.
- 7.1.3 The Control Room Operator I is responsible for initiating immediate response actions, observing overall plant operations, and ensuring the plant remains in a safe condition. If Control Room Operator I is unable to initiate the immediate response, the Control Room Operator will act on behalf of Control Room Operator I until a Control Room Operator I or SEM is available to relieve them.
- 7.1.4 During an emergency event, the Control Room Operator I assumes the duties as the SEM (Site Emergency Manager) until relieved by a member of the Plant Management Team.

7.2 Control Room Operator Responsibilities

The Control Room Operator I or designee shall:

- 7.2.1 Take the necessary actions to stabilize plant operation if affected.
- 7.2.2 Evaluate operational & physical impact to the facility.
- 7.2.3 Request Emergency services if required.
- 7.2.4 Notify Plant Operations Manager & Plant Management Team.
- 7.2.5 Take the necessary corrective action to restore systems if Plant Operations have been impacted by the event.

7.3 <u>Plant Response</u>

- 7.3.1 Refer to specific applicable EOP sections to guide emergency response actions.
- 7.3.2 Notify site personnel of plan event and any Safety concerns that may exist.
- 7.3.3 Control Room initiates phone calls for necessary off-site notification.
- 7.3.4 All other on-site personnel will monitor radio communications and support the appropriate response as directed by the SEM.

8. RECOVERY

Upon conclusion of an Emergency Event Response the SEM and Plant Management staff will give the approval and direction to restore plant systems as necessary and restore generation capability as allowed through communication will the Qualified Scheduling Entity. Refer to ANNEX C of this EOP for plant recovery and restoration protocols.

9. EMERGENCY CONTACTS

Contact	Phone Number

C. ANNEXES

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ANNEX A – WEATHER EMERGENCIES

1. Introduction

1.1. The Frontera plant utilizes AccuWeather's SkyGuard Warning System:

AccuWeather Portal - <u>https://enterpriseportal-v2.accuweather.com/</u> AccuWeather Phone: 316.266.8000

1.2. When the plant receives an AccuWeather Tornado Alert, via email or website prompt, all steps applicable to this procedure are to be entered in the plant Control Room applicable logbook by the on-shift Control Room Operator.

2. Lightning

- 2.1. The Control Room Operator will monitor AccuWeather radar for lightning strikes and be cognizant of site observations.
- 2.2. If a lightning strike is observed within a 10-mile radius, the following shall occur:
 - 2.2.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. Lightning has been observed within 10 miles of the plant. All upper level elevated work activities are suspended. Please return to ground level."

- 2.2.2 Repeat the announcement above.
- 2.2.3 All elevated work will be stopped in the following areas:
 - 2.2.3.1 Top of the HRSGs
 - 2.2.3.2 Steam turbine and pipe rack upper levels
 - 2.2.3.3 CTG inlet filter houses
 - 2.2.3.4 Top of the cooling towers
 - 2.2.3.5 Chiller Cooling Tower and elevated platforms

2.3. If a lightning strike is observed within a 6-mile radius, the following shall occur:

2.3.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. Lightning has been observed within 6 miles from the plant. All non-essential outdoor work activities are suspended."

- 2.3.2 Repeat the announcement above.
- 2.3.3 Site management and/or the Control Room Operator will determine which activities will be considered essential to plant operations and will be allowed under these conditions.
- 2.4. When no lightning strikes are indicated on AccuWeather radar within 6 miles for at least 10 minutes:
 - 2.4.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. No lightning strikes have been observed within 6 miles for 10 minutes. Non-essential outdoor work activities are now permitted. All upper-level elevated work activities remain suspended until further notice."

- 2.5. When no lightning strikes are indicated on AccuWeather radar within 10 miles for at least 20 minutes:
 - 2.5.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. No lightning strikes have been observed within 10 miles for 20 minutes. All outdoor work activities are now permitted without restrictions."

2.6. Monitoring may be discontinued once all AccuWeather lightning warnings have been terminated or expired and no further threats are expected.

3. Tornados

- 3.1. If an AccuWeather Tornado Watch is issued for the plant, the following will be performed:
 - 3.1.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. A Tornado Watch has been issued for the area. All site personnel are instructed to proceed immediately to ground level. Ground-level work is permitted but is limited to storm preparation and basic maintenance activities."

- 3.1.2 Repeat the announcement above.
- 3.1.3 Any personnel, contractors, and visitors working above the ground floor will proceed immediately to the ground level.
- 3.1.4 Once personnel are at ground level they will begin readiness work for a potential storm.
- 3.2. If an AccuWeather Tornado Warning is issued for the plant, the following will be performed:
 - 3.2.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. A Tornado Warning has been issued for the area. All site personnel are instructed to secure all portable equipment and proceed immediately to a safe area. Close all windows, blinds, and doors and await further instructions."

- 3.2.2 Repeat the announcement above.
- 3.2.3 All personnel, contractors, and visitors will secure portable equipment and proceed to a safe area. All personnel, contractors, and visitors must be mustered and accounted for.
- 3.2.4 All personnel will ensure building windows are closed and shades fully lowered.
- 3.2.5 Plant operators will ensure all plant building doors are fully shut.
- 3.2.6 The Control Room Operator or Control Room Operator shall notify the Plant Manager and the Qualified Scheduling Entity (QSE) that a Tornado Warning has been issued for the site and proceed with actions as directed by those sources.
- 3.3. If a tornado is spotted by plant personnel or the site receives notification that a tornado converging on the site is likely, the following will be performed:
 - 3.3.1 The Control Room Operator will make the following radio announcement:

"Attention in the plant. Attention in the plant. A tornado is approaching the site. Take cover immediately. The control room is being evacuated."

- 3.3.2 Repeat the announcement above.
- 3.3.3 Leave the plant in its current configuration.
- 3.3.4 Operations personnel will collect the control room radio and cell phone and proceed immediately to the storm shelter area.
- 3.3.5 The Control Room Operator I will notify the Qualified Scheduling Entity (QSE) that the control room has been evacuated and provide an update on the configuration of the plant.
- 3.3.6 No personnel shall leave the shelter areas without full authorization by the Site Emergency Manager (SEM).
- 3.4. Once the storm has cleared, the following will be performed:
 - 3.4.1 The SEM will notify all personnel, contractors, and visitors that it is safe to leave the shelter. It may be necessary to perform this action at each shelter if radios are unavailable or if site conditions warrant individual area assessments first.
 - 3.4.2 A muster shall be performed to account for all site personnel. Any missing personnel must be located. Medical emergencies shall be handled in accordance with SMP-02A ICP.
 - 3.4.3 Plant personnel will survey the site to assess plant damage, exercising extreme caution while navigating the area. Verbal updates will be provided to the SEM as conditions are evaluated.
 - 3.4.4 Any damage found will be documented and evaluated prior to return to service. Spills, fires, and pond damage shall be addressed in accordance with their respective ICPs.
 - 3.4.5 The Control Room Operator I shall update the Plant Manager (if not on site) and the Qualified Scheduling Entity (QSE) on plant status and site condition.
 - 3.4.6 The Plant Manager shall update the Woodlands Energy Management Corporate Leadership Team on plant status and site condition as appropriate.

3.4.7 The SEM will coordinate all subsequent activities. Plant cleanup efforts and system restoration shall be performed in accordance with plant procedures as experience and system evaluation dictates.

4. Winter Storms

- 4.1. If forecasted temperatures are expected to be <20° Fat any point or forecasted to be below freezing for >24 hours, the Plant Management Team will discuss and determine additional plant staffing to support cold weather operations. This additional staffing could include additional ICE, Maintenance, and Operations support personnel as well as contract personnel if necessary.
- 4.2. For long-duration forecasted winter events, evaluate the necessity of on-site or local housing and food accommodations for plant staffing. Make arrangements as necessary.
- 4.3. Evaluations should be made to determine if additional winterization efforts should be implemented based on forecasted elements associated with the event. Evaluations at a minimum should include:
 - 4.3.1 Insulation and lagging integrity
 - 4.3.2 Water leaking from system piping or lagging

4.3.3 Verify all instrument sensing lines are adequately covered with insulation and heat tracing

4.3.4 Determine if additional temporary or permanent windbreaks are required to protect critical equipment or instrumentation from forecasted elements.

4.4. Supplies utilized in response to an event should be staged in strategic locations to expedite response times from personnel should adverse conditions exist during a cold weather event.

4.5. Electrical heat trace should be verified to be in proper working order prior to the event.

4.6. During snow and ice storms, pay close attention to snow and ice accumulation around equipment, doorways, and on buildings and tanks. Consider blocking pathways in areas where ice mitigation is not practical or feasible.

- 4.7. Evaluate plant walkways for ice accumulation. Remove as necessary for access to plant areas. If icing is forecasted, consider pre-salting walkways and roadways where feasible.
- 4.8. Shift inspections conducted in accordance with SMP-02 ICP 8.B. 8.B is intended to be utilized on a daily basis and can span two shifts as weather conditions permit.
- 4.9. Document any issues observed during the course of the season and make any necessary revisions/improvements to SMP-02 ICP.

5. Heavy Winds

- 5.1. During periods of heavy winds, caution should be exercised while outside. If storms are in the immediate area of the plant, outside activities should be curtailed as much as possible. Personnel shall avoid being in the highest elevation on any structure.
- 5.2. Ensure no loose materials are left exposed in the plant.
- 5.3. Place overhead cranes in the storage position and lock in place.
- 5.4. During periods of high winds it will be necessary to monitor the cooling tower. If it is safe to do so, visually inspect the basin for debris accumulation. Monitor circulating water pump discharge pressures.

6. Flooding

- 6.1. The site should be monitored for rising water.
- 6.2. No personnel should enter or cross a suspected high water level area.
- 6.3. Any equipment exposed to rising water shall be shut down prior water immersion.
- 6.4. Notify plant management if equipment shutdown will necessitate plant shutdown.
- 6.5. All personnel shall proceed to high ground and stay out of the flood waters.

7. Extreme Heat

7.1. This extreme heat plan should be used in conjunction with the appropriate sections of the SMP-02A ICP Seasonal Readiness Plan when responding to an extreme heat event.

- 7.2. Prior to extreme heat event, building HVAC inspections shall confirm proper operation of all temperature control units. This includes continuity checks and temperature controller verifications as applicable.
- 7.3. Evaluations of critical equipment should be made to determine if additional measures can or should be taken to minimize effects of extreme heat. (i.e. additional sunshades)
- 7.4. Temporary cooling equipment should be staged in convenient locations to expedite the response to an extreme heat condition. (i.e. air horns, vortex coolers, portable AC units)
- 7.5. Evaluations should be made to determine if additional staffing resources are needed during the extreme heat event.
- 7.6. All maintenance activities will be evaluated to determine potential risks to operability during extreme heat conditions and will be deferred to off peak hours or following the extreme heat incident if warranted and depending on the severity of the event, all maintenance activities may be limited to emergent work only.
- 7.7. Screen equipment deficiencies for potential impact and prioritize their resolution as required to ensure reliable operation during extreme heat event.
- 7.8. Monitor plant operations during extreme heat event to identify weaknesses. Document items that were affected by extreme heat conditions and create work orders for resolution.
- 7.9. Document any issues observed during the course of the season and make any necessary revisions/improvements to SMP-02A ICP.

8. Drought

The facilities make up water primarily consists of Rio Grande River water supplied but Water District #6. The supply water can be supplemented with Frontera's 7 water wells. During a drought event, the facility will work with Water District #6 in conserving water and maintain regular communication regarding seasonal raw water flow.

ANNEX B – WATER SHORTAGE

1. Purpose

The purpose of this procedure is to provide guidance on actions to be taken in the event of a raw water supply interruption that could impact the generation capability of the Frontera Energy Center facility.

2. Definitions

For the purpose of this procedure, Water Shortage would imply an interruption of raw water delivery (Rio Grande River water) to the Frontera Energy Center facility raw water storage pond along with the failure of the Hidalgo County Irrigation District 6 to maintain the raw water pond at the desired normal level.

3. Communications

- 3.1 Upon discovery of an unintentional loss or unexpected reduction in available raw water supply to the Frontera Energy Center raw water pond, plant staff shall notify the Hidalgo County Irrigation District 6 and the Frontera Operations Manager as soon as practical to investigate the cause.
- 3.2 If the cause of the loss or reduction of raw water flow is determined to be caused by issues outside the operational control of the Frontera Energy Center facility, Plant Management shall maintain communications with the Hidalgo County Irrigation District 6 Management Staff to determine the cause of the interruption.
- 3.3 Once a cause of the interruption has been identified, the expected duration of the interruption should be determined and discussed with the Hidalgo County Irrigation District 6. The duration of the supply interruption should be evaluated to determine if plant generation could be impacted.
- 3.4 Once the risk to the facility is known this risk should be communicated to the Woodlands Energy Management Corporate Management Team and the Qualified Scheduling Entity.
- 3.5 As updates become available the Plant Management Team shall routinely update the Woodlands Energy Management Corporate Management Team and the QSE until raw water supply has been restored and on-site storage has been restored to normal levels.

4. Actions

- 4.1 Initial Actions shall be to investigate and determine the cause of the loss or reduction of raw water delivery to the Frontera Energy Center raw water pond.
- 4.2 Once cause of interruption has been determined, the duration of the interruption must be understood to perform an evaluation of Raw Water inventory on site to evaluate risk to the facility.
- 4.3 In coordination with the Hidalgo County Irrigation District 6, efforts shall be made to restore raw water availability as soon as practical. A determination should be made if the City of Mission's potable water system could supplement Frontera's raw water inventory until the raw water deliveries can be restored. Potable water flow can be routed directly to the cooling tower, the fire/service water storage tank or the demineralization system.
- 4.4 Raw water conservation should be considered in the event the raw water supply interruption is expected to impact the plant generation capability. Conservation alternatives that should be considered would be:
 - Reduction of duct burner operation during off-peak hours or all hours.
 - Reduction of Combustion Turbine Chiller operation.
 - Implementation of plant cycling operation to reduce off-peak operation.
- 4.5 When raw water supply has been restored to the Frontera Energy Center, Frontera Operations Plant Management will communicate the resolution to the Qualified Scheduling Entity and coordinate restoration from any water conservation efforts and generation derates.

ANNEX C – RESTORATION OF SERVICE

1. Priorities for Recovery of Generation Capacity

The Frontera Energy Center LLC facility is registered as a Generation Resource.

If the Generation Resource has experienced a reduction of generating capability due to a "Failed Start" or "Generator Trip" attributable to a Hazard or Threat, an investigation will be initiated to determine the direct cause of the failure. An assessment will be completed to determine if the initiating Hazard or Threat can be mitigated or eliminated to allow a return to service without further risk to plant equipment and capability.

During this investigation and recovery phase the Operations Team will provide updates to ERCOT through the Qualified Scheduling Entity on assessment findings and estimated return to service.

The Plant Management team will initiate the appropriate response actions to perform any necessary corrective actions to restore generation capability of the plant.

Once the threat or hazard that caused impact to the generating capability of the plant has passed or has been mitigated to reduce the risk to reliable operation of the facility, the SEM and the Plant Management Staff will determine if any corrective action is necessary. Once any required corrective actions have been completed the Plant Management Team will request a return to service via the Qualified Scheduling Entity and attempt to restore the full generation capability of the facility.

ANNEX D – PANDEMIC PLAN

1. PANDEMIC PLAN

A list of personnel volunteering for pandemic duty will be obtained and posted at the issuance of Phase 2 of the Pandemic Plan.

Frontera Energy Center will attempt to staff the Pandemic crew with volunteers. If there are not enough volunteers, the Operation technicians scheduled to work the shifts (that are not replaced with volunteers) will be expected to stay through the Pandemic lock down operation.

2. PURPOSE

This Pandemic Operations Plan, (POP), has been developed to assure that the Frontera Energy Center and its employees are prepared in the event a Pandemic condition should threaten the Frontera area.

This procedure provides information and outlines steps to protect personnel and is a guideline to follow rather than a set of rigid rules.

For better preparedness and smooth transitions in case of the threat of a Pandemic the POP has been divided into three phases of readiness.

Three Stages of Preparation:

- o Stage 1: Pandemic threat prepare for subsequent stages
- o **Stage 2:** Threat to facility operation due to infection elevation essential personnel only
- o Stage 3: Facility Lock Down Crews in place

2.1. Plan Elements for Stage 1

- Confirm VPN access for plant management, warehouse and other personnel who need remote access to business network.
- Purchase disinfectant wipes, hand sanitizer and other disinfectants and implement a program to ensure that telephones, counters, doorknobs andother control handles are regularly disinfected.
- Ensure adequate food and sleeping accommodations in the plant to cover a Stage 3 event:
 - If the supply chain appears to be threatened: one-week supply for Stage 3
 Personnel of heat-and-eat meals (bottled water, breads, sodas, chips, etc.)

and sleeping accommodations (cots, air mattresses, blankets, pillows, linens, etc.). (Note that there will be three crews of operators and three maintenance techs (2 IC&E and 1 MM).

- Develop lists of Essential Personnel (aka those who will report to the plant under Stage 2) and Stage 3 Personnel (those who will be part of a Facility Lock down Crew).
- Only perform maintenance required to keep the plant operational.
 - Minimize contractor access to those absolutely necessary to the continued operation of the facility. Notify non-essentials such as cleaning contractors that their service will discontinue until further notice.
 - Monitor any personnel on site for symptoms, and request anyone exhibiting such symptoms to leave the site immediately.

2.2. Plan Elements for Stage 2

- A Stage 2 declaration is at the discretion of the Plant Manager.
 - An Event Notification Level 2 should be sent to all plant personnel following the decision to elevate to Stage 2
- Direct that only Essential Personnel should be at the site.
- Front Gate requirements
 - Security personnel will don a facemask during interaction with plant personnel and third-party contractors.
 - Temperature checks of all personnel entering the facility to verify absence of fever.
 - o Complete virus threat/exposure checklist with third party contractors, excluding delivery drivers, entering the facility.
- Contractors shall wear a face mask when interacting with plant personnel.
- Essential Personnel should maintain approach distances whenever possible.

- o Per the Center of Disease Control (CDC), maintain at least 6 feet (2 arm lengths) from other people outside of essential plant personnel.
 - If 6 feet distancing is not possible:
- To maximize protection and to prevent virus transmission, employees and contractors shall wear a mask when interacting.
- Institute a 4-6 hour schedule for wipe-downs of phones, doorknobs, counters and controls.
- Emphasize to all personnel the importance of washing hands often for at least 20 seconds. If soap/water is not readily available, use a hand sanitizer that contains at least 60% alcohol.
- Continue to closely monitor any personnel on site for flu-like symptoms, and request anyone exhibiting such symptoms to leave the site immediately.
- Arrange for chemical deliveries necessary to keep tanks "topped off" in case of a Stage 3 event.
- Site management personnel to conduct daily meetings to discuss recent events of the pandemic and update upper management as needed.

2.3. Plan Elements for Stage 3

- A Stage 3 declaration is at the discretion of the Plant Manager.
 - o An Event Notification Level 3 should be sent f o 11 owing the decision to elevate to Stage 3
- Mobilize Stage 3 Personnel o Employees should be prepared for a potential lock

down.

- Restrict plant access only to Stage 3 personnel and essential contractors (chemical deliveries).
- Continue Stage 2 wipe-downs of phones, doorknobs, counters and controls.
- Site management personnel to conduct daily meetings to discuss recent events of the pandemic and update upper management as needed.

3. DUTIES AND RESPONSIBILITIES

Responsibilities during a Pandemic will follow normal operating routine. Special responsibilities are listed below.

3.1. Employees:

- Report to work as scheduled until such a time that Stage 3 of the POP has been declared.
- Any affected employee or the employee's immediate family member showing signs
 of illness should continue to stay home till they are cleared by a Physician.
- Based on Pandemic research/evaluation, additional policies may be locally implemented that cover travel guidelines, quarantine, return to work, and medical monitoring.

3.2. Site Management:

- Direct all plant activities.
- · Initiate all phases of the POP as necessary.
- · Release all non-essential personnel when/if appropriate.

4. REVISION HISTORY

	REVISION HISTORY LOG Section 6- Pandemic Plan			
Rev.	Date	Description	By Initials	Approval Initials
0	April, 12, 2022	issued	JG	VG

5. PANDEMIC PLAN FACILITY LOCK DOWN CREW

During a Pandemic Lock Down, a crew of 9 members will be designated from personnel on site and or the volunteer list. The volunteers are as follows:

Operations	Alternates
ICE	Mechanical

Note: 2 Control Room Operator Irs, 2 CRO's, 2 APO's, 1 Mechanical and 2 ICE.

6. FRONT GATE VIRUS THREAT/ EXPOSURE CHECKLIST

During Stages 2 and 3 identified in this plan, front gate security personnel will complete the following checklist for all non-plant personnel prior to allowing entry to the facility. If non-plant personnel requesting access to the facility exhibit any of the symptoms below, security personnel will notify the control room for further instruction.

Date: _____

Contractor Name

Contractor Personnel

In the past 48 hours have you had the following symptoms:

□Fever or chills

□Cough

□Shortness of breath or difficulty breathing

□Fatigue

□ Muscle or Body aches

□Headache

New loss of taste or smell

□Sore throat

Congestion or runny nose (non-allergy related)

Nausea or vomiting

□Diarrhea

** references CDC Facilities Screening

ANNEX E – HURRICANE PROCEDURES

1. Hurricane Procedures

HURRICANE PROCEDURES AND READINESS

Management will notify all working and/or not working employees when the National Weather Service determines that a hurricane has entered the Gulf of Mexico, or that the immediate area is threatened by a tropical storm that has potential to develop into a hurricane.

The plan gives management and other responsible individuals the option to use their discretion to move the plan forward toward increasing preparedness. The weather advisory console in the control room will be our best tool for onsite employees to be kept informed on the status of the storm.

Only the Plant Director has the authority to close the FEC and determine when it will reopen. Employees, who were not scheduled to work, will be notified of plant closing via phone call. Employees are responsible to find out about the plant reopening, after the hurricane/tropical storm has dissipated.

The terms Gale Warning, Hurricane Watch and Hurricane Warning are frequently used in hurricane advisories. These terms are defined in the following paragraphs:

DEFINITIONS

Gale Warning

For winds reaching 39 to 54 mph or a whole gale warning reaching 55 to 73 mph that is expected to get the full impact of a hurricane.

Hurricane Watch

Issued when a hurricane reaches a position that constitutes an appreciable threat to a specific area and serves to caution residents to listen to the radio or television for further advisories.

Hurricane Warning

Issued when it is expected that an area will feel the dangerous effect of the hurricane (winds of 74 mph and higher or a combination of dangerously high water, very rough seas, and winds 60 mph and higher). It should be noted that the high winds, heavy rain, and high waves could occur 200 to 300 miles outward from center of the hurricane.

Phase I – Hurricane Readiness

Annual preparation is to be completed by June 1st of each year. Automated hurricane readiness work lists will be issued to all teams with Phase I responsibilities (see Table 8.2).

Phase II - Hurricane Warning

Hurricane may threaten coastal southwest Texas within 48 hours. This phase will be announced by the

Plant Director, O&M in accordance with the National Weather Services (NWS) bulletins (see Table 8.3).

Phase III - Hurricane Alert

Hurricane alert is issued by the NWS when there is a 35% or greater probability of hurricane activity in the area within 24 hours. This phase will be announced by the Plant Director, O&M in accordance with the NWS bulletins (see Table 8.4).

Phase IV – Normalizing Procedures

When the hurricane no longer threatens coastal area, return to Phase I status. The Plant Director will announce this phase (see Table 8.5).

Plant Director:		
1.	Review, update, and initiate hurricane procedures.	
Operators	5:	
1.	Verify all plant radios operate properly and request for repairs/replacements.	
2.	Ensure plant site is clean and free and from unnecessary debris that could be blown during a hurricane.	
3.	Keep drainage ditches clear to ensure proper runoff.	
4.	Inventory rain gear for all personnel and submit to the Plant Director before June 1.	
5.	Obtain volunteer list for hurricane duty and submit to the Plant Director before June 1.	
6.	Verify latching/locking mechanisms work on all doors and initiate work orders for needed repairs.	
7.	Ensure all personnel phone numbers in shift order book are correct.	
8.	Inventory/verify that the Phase III hurricane readiness supply storage chest contains all necessary equipment.	
9.	e following tanks are properly filled: (tanks should be filled to this minimum level throughout the hurricane season.) a. Sodium Hypochlorite (50 %) b. Sulfuric Acid (50%) c. Demineralized water tank (80 %) d. WTF 10 K tank (80 %)	
10.	Order and store nonperishable food supplies to accommodate up to six people for at least 72 hours.	
11.	Order missing items from the hurricane readiness storage chest; order fresh food supplies.	
12.	Order and store onsite 100 sand bags (secrete).	
13.	Verify that all portable pumps are in good operating condition.	
14.	Order replacement rain gear suits as requested by Operators. Order and store at least six complete spare rain gear suits.	
15.	Order and store 10-20 sheets of 0.5 inch plywood and fifty 8-ft 2-by-4s.	
16.	Verify maximum quantity of batteries and flashlights are on hand.	
17.	Verify maximum quantity of masking tape is on hand.	

Table 8.2 Phase I – Hurricane Readiness Checklist

Superintendent, O&M:			
1.	Notify O&M Manager that Phase II has been implemented.		
2.	Setup command post in Plant Services Building. Direct preparedness procedures during Phase II and III until Phase IV is announced.		
3.	Assist Operators on duty with Readiness checklist.		
4.	Verify all the plant radios operate properly.		
5.	Place an AM/FM portable radio, portable TV, and an all-weather radio in the command post area.		
Operators:			
1.	Recheck that transfer sump pumps operate properly and pump the waste neutralization and transfer sumps to minimum levels.		
2.	Recheck plant site for loose material that may be moved by high winds.		
3.	Secure all portable gas bottles.		
4.	Secure all drums.		
5.	Check hurricane readiness storage chest in the Plant Services Building.		
6.	Check that the following tanks are properly filled: a. Sodium Hypochlorite (50%) b. Sulfuric Acid (50%) c. Deminerlized Water Tank (80%) d. WTF 10K Tank (80%)		
7.	Recheck all portable pumps.		
8.	Move six bottles of water to the Control Building.		
9.	Ensure that the Plant Services Building is furnished with paper plates, knifes, forks, spoons, salt, pepper, mustard, Mayonnaise, ketchup, etc.		
10.	Tie-down, secure, or safely store any equipment such as dumpsters, trash cans, etc.		

Administrative Aide:_____1.Verify availability of doctors and medical facilities listed on the "Emergency Medical Procedures Checklist". Amend list if needed._____2.Have maximum amount of petty cash on hand for contingencies.

Superintendent, O&M:		
1.	Notify O&M Manager that Phase III has been implemented.	
2.	Arrange for storm duty personnel to be onsite. Suggest being transported to the plant site. (Company cannot be responsible for storm damage to vehicles.	
3.	Assist Operators with Readiness checklist.	
4.	Maintain access to a fax machine.	
5.	A cellular phone should be provided for back-up emergency communication.	
Operators:		
1.	Open all disconnect switches to equipment not needed for existing operating conditions.	
2.	Watch for high water. De-energize outside equipment before high water causes electrical problems.	
3.	Recheck the plant site for loose material that may be moved by high winds.	
4.	Seal all doors and close tightly with latch. Sandbag closed if needed.	
5.	Tape all windows.	
6.	Move all empty and partially filled drums from used oil storage area to inside the Plant Services Building.	
7.	Verify that all roof drains are free from obstructions.	
8.	Fuel up all vehicles and locate outside the Plant Services Building.	
9.	After the above have been completed, all personnel should remain indoors as much as possible to help prevent personal injury.	
10.	Close and seal, remaining storm doors.	
11.	Use plywood 2 x 4s to seal areas as needed.	
12.	Locate outside storage shelf/palette items inside Plant Services Bldg.	

Superintendent, O&M:			
1.	Notify Plant Director that the storm has passed and the plant is no longer in the alert phase.		
2.	Ensure plant site is clean and free and from unnecessary debris that could be blown during a hurricane.		
3.	Keep drainage ditches clear to ensure proper runoff.		
Operators:			
1.	Return all valves/controls to normal positions that were changed during the storm.		
2.	Check plant site for equipment damage before energizing equipment.		
3.	Inspect plant site dikes and ditches for erosion damage and proper drainage.		
4.	Move air compressor back to its former location.		
5.	Return items to the hurricane storage chest.		
6.	Open all the sealed doors. Check for damage.		
7.	Remove sandbags (secrete) and replenish supplies.		
8.	Remove all equipment tie-downs.		
9.	Return all portable pumps to the tool room.		
10.	Inventory and restock hurricane storage chest. Make sure items are in usable condition. Have blankets cleaned if necessary.		
Administrative Aide:			
1.	Inventory office equipment for damage.		

Table 8.5 Phase IV – Post Storm Normalizing Procedures

ANNEX F – CYBER SECURITY

1. PURPOSE

This plan addresses the actions and reporting procedures to be followed by Frontera Energy Center in the event of a Cyber Security Incident. This Plan ensures that an incident response plan is in place to detect and mitigate incidents and restore identified Bulk Electric System Cyber Systems (BCS) computing services.

2. SCOPE

This plan applies to all Frontera Energy Center employees, contract, and vendor personnel responsible for the operation, protection and maintenance of Bulk Electric System Cyber Systems (BCS) that support Bulk Electric Systems, including those having authorized cyber or authorized unescorted physical access to BCSs.

3. DEFINITIONS AND DEFINED TERMS

Cyber Security Incident: A malicious act or suspicious event that compromises, or was an attempt to compromise, the Electronic Security Perimeter or Physical Security Perimeter or, disrupts, or was an attempt to disrupt, the operation of a BES Cyber System.

Reportable Cyber Security Incident: A Cyber Security Incident that has compromised or disrupted one or more reliability tasks of a functional entity.

NERC Glossary of Terms can be accessed by clicking the following link: <u>http://www.nerc.com/pa/Stand/Glossary of Terms/Glossary of Terms.pdf</u>

4. ROLES AND RESPONSIBILITIES

Detection by direct observation and internal reporting of a Cyber Security Incident are the responsibilities of each Frontera Energy Center employee and vendor. These personnel are entrusted with the responsibility of safeguarding the physical or cyber security of CIP-related assets, which includes all identified Low Impact BCSs.

The following roles collectively comprise the Cyber Security Incident Response Team (CSIRT). These job titles have specific roles and responsibilities assigned to them. It is understood that all plants are different and may have various job titles that meet these roles.

A. Frontera Energy Center CIP SENIOR MANAGER OR DELEGATE(S)

Functions as the onsite incident responder providing overall direction and authority during a Cyber Security Incident, leading the classification and response to the incident, and coordinating other communication as necessary. The CIP Senior Manager or Delegate(s) assists in the determination of a Reportable Cyber Security Incident.

B. Frontera Energy Center STAFF

The incident response team consists of senior plant management, physical security specialists, network and control specialists, and applicable personnel. Other Frontera Energy Center business units, information technology, business analysts, and contractors may also be part of these teams depending on the issue and recovery required.

Position	Role	Responsibilitv
Reliability Engineer	Recovery team lead	Lead recovery efforts
Operations Manager	Plant expert	Responsible for determining functionality of plant
Logic SME	Network expert	Responsible for restoring network
Control Room Operator I	Operations expert	Assist Plant Engineering and Operations Manager in assessment
Maintenance Manager	Crew Lead	Responsible for coordinating labor needs. Responsible for support of Incidents involving Physical Security
IT Manager/IT personnel	ITSME	Responsible for technical insight, device log collection, review, and preservation

C. VENDORS

CIP-related asset vendors may have an essential role in ensuring the CSIRT understands how to resolve or work around equipment failures and how to resume operations when necessary. CIP-related asset vendors may also be called upon for the supply of replacement software and hardware.

5. CYBER SECURITY INCIDENT RESPONSE PROCEDURE

A. IDENTIFICATION

Upon discovery of a potential Cyber Security Incident, immediately notify the On-Shift Operator. The On-Shift Operator shall then contact the Control Room Operator I, who will alert the CIP Sr. Manager and work with the organization's technical support staff or vendor to determine if there is a Cyber Security Incident or other issue affecting the system.

A Cyber Security Incident (CSI) is defined as a malicious act or suspicious event that compromises, or was an attempt to compromise, the Electronic Security Perimeter or Physical Security Perimeter or, disrupts or was an attempt to disrupt, the operation of a BES Cyber System. The following conditions may indicate a CSI has occurred:

- a. Routine systems monitoring detects a known or potential incident such as:
 - i. Endpoint Protection alerts
 - ii. Intrusion Detection System (IDS) alerts
 - iii. Security Information and Event Management (SIEM) alerts
 - iv. Policies changed (firewall, Group Policy Object (GPO), etc.)
 - v. System hardening settings changed
 - vi. Physical Security Perimeter breach
- b. Unexplainable behavior of a BCS and/or BES Cyber Assets (BCAs) within a BCS.
- c. Unexplainable loss of BCA or BCS functionality
- d. Notification of a potential CSI by an external entity, including law enforcement, CERT or E-ISAC.
- e. Notification of a potential CSI by an employee, contractor, or vendor.

B. ASSESSMENT AND CLASSIFICATION

Record the following information as applicable in the initial assessment and investigation on RCP-NERC-CIP-003-ATT-G. Please note that the following list is not exhaustive:

- a. When, how, and by whom was the event reported (from Section 3.A)?
- b. What system functionality is affected?
- c. Are generation or transmission assets affected?
- d. How many BCAs and/or BCSs are possibly affected?
- e. Indicate results of log(s) examination on all access and monitoring devices and suspect systems.
- f. Was unauthorized electronic and/or physical access gained?
- g. Was there a compromise or disruption of one or more of reliability tasks? Reliability tasks are listed in Attachment B and defined in NERC Standard CIP-002-5.1a.

Based on the assessment above, the CSIRT shall classify the event as a Reportable CSI if the CSI has compromised or disrupted one or more reliability tasks of Frontera Energy Center.

If the CSI is determined to be Reportable (also review EOP-004 & DOE reporting requirements), then proceed to Section D, Communication Protocol, and initiate the reporting process, then return to Section C. Some incident types have a limited

reporting window starting (within 1 hour) from when the CSI was determined to be reportable.

If the event is determined not to be a Reportable CSI, continue to document the investigation on the RCP-NERC-CIP-003-ATT-G, retain that form and any other evidence, and skip Section D.

C. RESPONSE AND INCIDENT HANDLING

The incident response process will be initiated when there is an event that requires further investigation. The CIP Senior Manager, Delegate(s) or assigned Incident Coordinator will assemble the CSIRT, initiate measures to contain the incident, implement measures to eradicate the threat and determine whether the incident is resolved or to implement device recovery.

i. Containment

Containment must be performed at the earliest possible stage to avoid cascading incidents. If the threat is internal from a compromised system or device, the device should be isolated from the network to reduce the threat to unaffected systems. If the threat is external such as an attempt to access the low impact physical security area or electronic security area, steps should be taken to sever or block the external accessibility to the extent possible.

- Prevent future electronic or physical access that could cause additional damage.
- Engage internal and external support resources as needed.
- If the event involved physical access to a PSP or system, investigate how access was obtained.
- Reassess damage and capabilities of impacted systems per the Section B.
- Engage local law enforcement as required. Phone numbers can be found in procedure RCP-NERC-EOP-004-3-ATT-A.
- ii. Evidence Collection and Documentation

Document the identification, assessment and/or actions taken in response to the event. Examples may include any of the following:

- Dated Documentation
- Security Logs
- Police Reports
- Emails
- Checklists
- Forensic Analysis Results
- Restoration Records
- Post-Incident Review Notes

- OE-417 Form
- Document any deviations from the plan taken during the response.

iii. Data Preservation

Collection of information from the target system should be conducted in accordance with the appropriate forensic practices, where possible. Other relevant data that may correlate with the evidence of unauthorized access, including intrusion detection alerts and firewall logs, should be collected. Collected evidence should be securely stored.

Preserve records of electronic and physical access to the cyber assets Data on disk drives of cyber assets shall be copied, mirrored, or replaced prior to recovering the asset where possible.

Configuration files of firmware based cyber assets shall be saved to a secure location. Eyewitness accounts shall be documented.

Restoration of the BES and the safety of employees, contractors, and the public will take priority over the preservation of CSI data preservation. Record chain of custody of all evidence collected.

iv. Eradication, Recovery and Resolution

Successful attackers frequently install root kits, which modify or replace system binaries and other files. Root kits hide much of what they do, making it tricky to identify what was changed.

If an attacker appears to have gained root access to a system:

- a. Restore the system from a known good backup or reinstall the operating system and applications
- b. Change all passwords on the system, and possibly on all systems that have trust relationships with the victim system

If an attacker only gains a lesser level of access than administrator-level, eradication and recovery actions should be based on the extent to which the attacker gained access.

D. COMMUNICATION PROTOCOL

Initial Identification Notification - Immediately upon detection of a possible CSI, notify the CIP Senior Manager or Delegate(s). Notifications may originate from any of the personnel listed in the CSIRT roles that receives alerts from applicable sources, including any employee or vendor who is entrusted with the responsibility of safeguarding the physical and/or cyber security of Frontera Generation I's CIP-related Cyber Assets.

Vendor Support- If required, the CSIRT is responsible for initiating vendor support services. Such communication may be appropriate to enable a deeper investigation of the incident or resumption of services.

- i. <u>Required Reporting</u>
 - a. E-ISAC & DOE
 - (1) Reporting an incident to DOE and E-ISAC is time sensitive, in some cases within one hour of determining a Reportable CSI. Reporting should be done using the Department of Energy OE-417 form. The form and instructions are found at the link below. The report can be submitted online directly to DOE and E-ISAC with a copy being emailed back to the originator (for documentation and forwarding to additional reporting recipients, if necessary). If emailing the form, apply encryption if necessary.

http://www.nerc.com/pa/CI/ESISAC/Pages/Report-an-Incident.aspx

- (2) Ongoing communication with DOE and E-ISAC will be coordinated through the CIP Sr. Manager or Delegate.
- b. Texas RE

- (1) The CIP Senior Manager or Delegate(s) will submit or direct submission of the same DOE Form OE-417, to the Regional Entity via email as required.
- c. Electric Reliability Council of Texas, Inc., Electric Reliability Council of Texas, Inc. and ERCOT / ONCOR
 - (1) Operating personnel on duty will make notifications to the other parties in the interchange via phone or email as directed by the CIP Sr. Manager

6. EVIDENCE RETENTION

Frontera Energy Center will retain data or evidence to show compliance with each requirement for three calendar years unless directed by its Compliance Enforcement Authority ("CEA") to retain specific evidence for a longer period.

ANNEX G – PHYSICAL SECURITY

1. PURPOSE

The purpose of this procedure is to describe the plan for responding to physical security incidents at Frontera Energy Center. This document will outline how to detect and react to physical security incidents, determine their scope and risk, respond appropriately and quickly, and communicate the results and risks to appropriate parties.

2. SCOPE

This incident response plan applies to all employees, contractors, clients and visitors of Frontera Energy Center. This plan does not cover cybersecurity incidents or data breaches. For information about responding to incidents involving information systems and networks of Frontera Energy Center., see Section 7 Cybersecurity Incident.

3. DEFINITIONS & EXAMPLES

An incident is an event that violates the policies, standards or Code of Conduct of Frontera Energy Center. or that threatens the safety and well-being of Frontera Energy Center. employees, contractors, or visitors. Examples of incidents include:

- Unauthorized breach of Frontera Energy Center physical property, fence lines, gates, etc.
- Workplace accidents and injuries
- Health and safety incidents
- Near misses
- Physical security breaches (e.g. break-ins)
- Workplace violence

4. RESTRICTING PHYSICAL ACCESS

- 4.1 Frontera Energy Center has defined a number of operational and procedural controls to restrict physical access to the perimeters and buildings.
 - 4.1.1 Security fencing with gates and locks
 - 4.1.2 A 24 hour/7 day staffed guard at the main gate that monitors all plant traffic and tracks vendors and visitors.
 - 4.1.3 A card reading system for the control room limiting access for non- essential contractors.
 - 4.1.4 Fence lines and entry points under 24/7 video camera surveillance.
- 5. ROLES & RESPONSIBILITIES

- 5.1 Employees are responsible for:
 - 5.1.1 abiding by Frontera Energy Center. safety and security policies and procedures.
 - 5.1.2 reporting incidents in accordance with the guidelines in Frontera Energy Center. safety and security policies and procedures
 - 5.1.3 attending periodic training on Frontera Energy Center. physical security incident response plan, as well as on safety and security issues in the workplace.
- 5.2 Managers are responsible for:
 - 5.2.1 promoting a safe work environment
 - 5.2.2 taking every reasonable measure to protect their employees
 - 5.2.3 providing Frontera Energy Center. safety and security policies and procedures to their employees.
 - 5.2.4 assisting with investigations if required
 - 5.2.5 reporting incidents in accordance with the guidelines in Frontera Energy Center. safety and security policies and procedures
- 5.1 The Incident Response Team is responsible for:
 - 5.3.1 notifying persons of potential risks
 - 5.3.2 monitoring the implementation of this incident response plan
 - 5.3.3 leading risk assessments and root cause analyses
 - 5.3.4 leading employee training on this incident response plan as well as on safety and security issues in the workplace
 - 5.3.5 reviewing this incident response plan on a periodic basis
 - 5.3.6 responding to all incidents where immediate assistance is required, taking steps to mitigate immediate risks and notify emergency services if required
 - 5.3.7 conducting an initial investigation of all incidents, taking steps to mitigate immediate risks and develop safety plans for affected individuals if necessary
 - 5.3.8 assisting with incident investigations

5.3.9 liaising with law enforcement agencies and participating in legal processes if required

6. INCIDENT RESPONSE STAGES & PROCEDURE

- 6.1 Stage 1: Preparation
 - 6.1.1 develop and review Frontera Energy Center. policies and procedures
 - 6.1.2 train employees on Frontera Energy Center. policies and procedures

6.2 Stage 2: Detection

- 6.2.1 discover incident through tips or reports
- 6.2.2 discover incident using security tools or other detection strategies
- 6.2.3 complete Frontera Energy Center. incident reporting as required
- 6.2.4 declare and classify the incident
- 6.1 Stage 3: Containment
 - 6.1.1 identify, isolate and/or mitigate risks associated with the incident
 - 6.1.2 notify affected parties
 - 6.1.3 decide whether or not to investigate incident
 - 6.1.4 preserve physical and/or digital evidence
- 6.1 Stage 4: Investigation
 - 6.1.1 determine the incident's priority, scope and root cause
 - 6.1.2 collect physical and/or digital evidence
 - 6.1.3 conduct interviews with complainants and/or persons involved
- 6.1 Stage 5: Remediation
 - 6.1.1 repair affected systems (if applicable)
 - 6.1.2 communicate to and instruct affected parties about next steps

- 6.1.3 confirm that the threat has been contained
- 6.1.4 file formal reports as per regulatory requirements (if applicable)
- 6.1.5 create of post-incident report
- 6.1 Stage 6: Recovery
 - 6.1.1 analyze the incident for its procedural and policy implications
 - 6.1.2 gather metrics
 - 6.1.3 review and edit established policies and procedures with lessons learned from the incident

ANNEX H – EOP COMPLIANCE REQUIREMENTS

1. PURPOSE

The purpose of this section is to provide guidance to maintaining compliance with Texas Administrative Code Rule §25.53 Electric Service Emergency Operations Plans, including but not limited to, the requirements for reviews an updates, training, drills, and affidavits.

2. REVIEWS & UPDATES

- 2.1 An entity must continuously maintain its EOP. Beginning in 2023 an entity must annually update information included in its EOP no later than March 15 under the following circumstances:
 - 2.1.1 An entity that in the previous calendar year made a change to its EOP that materially affects how the entity would respond to an emergency must file with the PUCT and executive summary that:
 - 2.1.1.1 describes the changes to the contents or policies contained in the EOP
 - 2.1.1.2 Includes an updated reference to specific sections and page numbers of the entity's EOP that correspond with the requirements of Rule §25.53 Electric Service Emergency Operations Plans
 - 2.1.1.3 includes the record of distribution required under Rule §25.53 Electric Service Emergency Operations Plans
 - 2.1.1.4 contains the affidavit required under Rule §25.53 Electric Service Emergency Operations Plans
 - 2.1.1.5 file with the PUGT a complete, revised copy of the EOP with all confidential portions removed
 - 2.1.1.6 submit to ERCOT its revised unredacted EOP in its entirety if the entity operates within the ERCOT power region.
 - 2.1.2 An Entity that in the previous calendar year did not make a change to its EOP that materially affects how the entity would respond to an emergency must file with the PUGT:

- 2.1.2.1 a pleading that documents any changes to the list of emergency contacts as provided under Rule §25.53 Electric Service Emergency Operations Plans
- 2.1.2.2 an attestation from the entity's highest-ranking representative, official, or officer with binding authority over the entity stating the entity did not make a change to its EOP that materially affects how the entity would respond to an emergency
- 2.1.2.3 the affidavit required by Rule §25.53 Electric Service Emergency Operations Plans
- 2.1.3 An Entity must update its EOP, or other documents required if PUGT staff determines that the entity's EOP or other documents do not contain sufficient information to determine whether the entity can provide adequate electric service through and emergency. If directed by PUGT staff, the entity must file its revised EOP or other documentation, or a portion thereof, with the PUGT and, for entities with operations in the ERCOT power region, with ERCOT.

3. RECORD OF DISTRIBUTION

- 3.1 A record of distribution contains the following information in table format:
 - 3.1.1 titles and names of persons in the entity's organization receiving access to and training on the EOP
 - 3.1.2 dates of access to or training on the EOP, as appropriate.

4. EMERGENCY CONTACTS

An entity must file with the PUCT a list of primary and, if possible, backup emergency contacts for the entity, including identification of specific individuals who can immediately address urgent request and questions from the PUCT during an emergency.

5. AFFIDAVITS

- 5.1 An affidavit must be signed by the highest-ranking representative, official, or officer with binding authority affirming that the items in 25.53(c)(4)(C) are met.
- 5.2 The affidavit must affirm the following:
 - 5.2.1 relevant operating personnel are familiar with and have received training on the applicable contents and execution of the EOP

- 5.2.2 personnel have been instructed to follow the applicable portions of the EOP except to the extent deviations are appropriate as a result of specific circumstances during the course of an emergency
- 5.2.3 the EOP has been reviewed and approved by the appropriate executives
- 5.2.4 drills have been conducted to the extent required by Rule §25.53 Electric Service Emergency Operations Plans
- 5.2.5 the EOP or an appropriate summary has been distributed to local jurisdictions as needed
- 5.2.6 the entity maintains a business continuity plan that addresses returning to normal operations after disruptions caused by an incident
- 5.2.7 the entity's emergency management personnel who are designated to interact with local, state, and federal emergency management official during emergency events have received the lates IS-100, IS-200, IS- 700, and IS-800 National Incident Management System training.

6. DRILLS

- 6.1 An entity must conduct or participate in at least one drill each calendar year to test its EOP.
- 6.2 Following an annual drill, the entity must assess the effectiveness of its emergency response and revise its EOP as needed.
- 6.3 An entity conducting an Annual Drill must, at least 30 days prior to the date of at least one drill each calendar year, notify PUCT staff, using the method and form prescribed by PUCT staff on the PUCT website, by email or other written form, of the date, time, and location of the drill.
- 6.4 An entity that has activated its EOP in response to an emergency is not required, under Rule §25.53 Electric Service Emergency Operations Plans, to conduct or participate in a drill in the calendar year in which the EOP was activated.

7. REPORTING

- 7.1 Upon request by PUCT staff during an activation of the State Operations Center by TDEM, an affected entity must provide updates on the status of operations, outages, and restoration efforts.
- 7.2 Updates must continue until all incident related outages of customers able to take service are restored or unless otherwise notified by PUCT staff.

- 7.3 After an emergency, commission staff may require an affected entity to provide an after action or lessons learned report and file it with the commission by a date specified by commission staff.
- 8. TRAINING
 - 8.1 Relevant operating personnel must receive training on the applicable contents and execution of the EOP and subsections.
 - 8.2 An entity's emergency management personnel who are designated to interact with local, state, and federal emergency management officials during emergency events must have received the latest IS-100, IS-200, IS-700, IS- 800 National Incident Management System training.