

Appendix F

PHR Winter Weather Emergency Contact List

Tenaska	QSE	817-462-1509
Alonzo Ramirez	Rockland VP	214-236-6011
Keith Feemster	Rockland Asset Management	409-988-4624
Elena DeLauney	Rockland Finance VP	917-774-6911
Matt Becker	Rockland Finance VP	713-203-1793
Amanda DeLeon	Tenaska Energy Manager	832-528-8370
Jon Stepka	Tenaska Energy Manager	817-804-8720
Roger Lee	PHR PM	727-488-0817
Woody DeBenedictis	PHR ICE	830-832-7553

Weather Watch Checklist

Appendix E

PH Robinson Peakers 5501 TX-146 Bacliff, TX 77546

Instructions

This checklist is to be completed every 4 (four) hours once a Freeze Stage 0 has been enacted. The NOAA weather tracker will be used to forecast weather changes for the upcoming 4 (four) hour block.

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PHR	Weather	Watch Logs	https://forecast.weather.gov,	/MapClick.ohp?w0=t&w6=rh&Ahe	280Hour=0&Submit=Submit&& 94.9919&site=all	FcstType=digital&textFi	eld1=29.5082&textField2=
	Only us	e this Round s	sheet if the plant is a	at a Freeze Stage 0 i	n conjunction with c	leteriorating co	onditions
lfa	future tem	p is expected to trig	ger a change in Freeze st	ate, please document this n	ound sheet. Please use th	e attached website	for forecasting.
Date	Time	Current Ambient Temp °F	Time/Temp "F in 4 hours (Actual)	Time/Temp °F in 4 hours (Actual)	Time/Temp *F in 4 hours (Actual)	Freeze Stage at Beginning of Log Entry	Verified By:

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Name	Signature	Date
Pat Daly	Total	11-29-2021
Clyde Mahan	our	11/29/21
Ron Dennison	Riden	11.29.2 /
Jacob Webb	Im	Ulbyla
Joel Ayala	Jadjan	11/29/21
Kyle Miller	36 mo	1/29/2021
Ryan Moore	for home	29.NOU21
Corbon Gibert	car	(2.21.21
Woody DeBenedictis	4) Matte	11/29/21
Roger Lee		11/29/21

PHR Winter Weatherization Training Sign in sheet

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Attachment E – Summer Readiness Procedure

	PH Robinson	Revision:	0
		Issue Date:	4-2021
Summer Weatherization	Summer Meetherization	Review Cycle:	Annually
	Proc. SOP PH	R SUMMR	

PHR Peaking Facility

Standard Operation Procedure

Summer Weatherization

Rev	Date	Originator	Checked	Approved
0	04/30/2021	DENNISON		

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QCP 1.0, Rev. 1

PH Robinson	Revision: 0	
	Issue Date: 4	-2021
Summer Meetherization	Review Cycle: A	nnually
Summer Weatherization	Proc. SOP PHR	SUMMR

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1.0 <u>PURPOSE</u>

1.1 The Summer Weather procedure will provide guidance for protection of equipment during hot weather conditions.

2.0 <u>SCOPE</u>

- 2.1 This SOP provides instructions to plant personnel for plant readiness, Detailed checklist to be completed to secure equipment. Equipment modifications and operating experience will necessitate additions, and deletions to these procedures.
- 2.2 It is acknowledged that this document does not cover all plant or system operating scenarios. This document has been developed to assist plant personnel with the knowledge to properly secure the plant, and operate during severe weather conditions. This document does not take the place of sound operating practices or knowledge gained through experience.

3.0 <u>REFERENCE</u>

3.1 Plant P. & I.D. drawings.

4.0 **DEFINITIONS**

4.1 Extreme Summer Weather – Weather conditions that warrant protection of equipment during conditions that can damage equipment, cause failure, or prevent the plant from dispatch.

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5.0 RESPONSIBILITIES

- 5.1 The Facility Manager is responsible for the effective implementation of this procedure.
- 5.2 The Assistant Plant Manager is responsible for ensuring that plant personnel are properly trained and qualified, as required, to implement this procedure.
- 5.3 The Control Room Operator (CRO) is responsible for assigning a properly trained and qualified Operations and Maintenance Technician (OMT) to implement this procedure in a safe and effective manner.

6.0 LIMITS AND PRECAUTIONS

- 6.1 Environmental Store glycol for exchangers in proper containers.
- 6.2 Health & Safety Be aware of hot surfaces. Always wear proper PPE equipment when working on or around plant equipment.
- 6.3 Regulatory There are no Regulatory requirements associated with this procedure.
- 6.4 Other There are no other requirements.

7.0 PROCEDURE

7.1 Extreme weather checklist is located on the server in the procedures section.

"Summer Weather Check list"

- 7.1.1 CRO/ASM will ensure that all plant operators are trained in the operation and location of plant equipment listed in the procedure.
- 7.2 Coordinate with CRO on test procedure: The following will be performed with assistance from the Auxiliary Operator.

7.2.1 Bleed Valve Test

a) Perform Compressor Bleed Valve Test when unit is Offline b) AO - Connect instrument air to inlet hose connection for Bleed Valves.

c) Select Unit to be tested on DCS

d) Select Maintenance Page from DCS

e) Select and change operating mode from "Auto" to "Off". No tests will initiate with the unit in "Auto" $\,$

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f) CRO – Communicate to AO to line up for supply air to CBV being tested.

g) CRO will initiate "Test On" on the DCS. AO/CRO will verify in the field and DCS that both CBVs operate. Fully Closed/Fully Open.
Stroke valves several times to verify proper operation.
h) Positive results – Fully open (Green Indication) Closed (Red Indication).

End of Test

7.3 Coordinate with CRO on test procedure: The following will be performed with assistance from the Auxiliary Operator.

7.3.1 Purge Valve Test

a) Perform Purge Valve Test Only When Unit Is Offline. b) Using the HMI Select the GAS FUEL Screen. c)Using the PURGE SYSTEM TEST select ON. d)The Purge Valves VA13-1 & VA13-2 should uniformly stroke fully open in less than 30 seconds e) Using the PURGE SYSTEM TEST select OFF. f) The Purge Valves VA13-1 & VA13-2 should uniformly stroke fully shut in less than 30 seconds Repeat Several Times. (3 times?) g) Leave PURGE SYSTEM TEST in the OFF position when complete, VA13-1 & VA13-2 are shut. h) Do a Master Reset and check to ensure all alarms & faults associated with this Test are reset. i) Begin troubleshooting if valves do not stroke uniformly open & close in less than 30 seconds. i) Select "Test Off" k) Return unit from "Off" to "Auto" l)Perform a "Master Reset" - Verify all alarms are reset. End of Test

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7.4 **Outside Plant Equipment Protection**:

7.4.1 AC units at PEECC

- a) Check operation of each unit.
- b) Verify Unit cycles appropriately.
- c) Verify proper temperature in PEECC.
- d) Check for any unusual sounds.

7.4.2 Plant Buildings/MCC/Switchyard

- a) Check the operation of each unit.
- b) Verify cooling temp with thermostat.
- c) Check outside compressor for any unusual sounds.

7.4.3 Lube Oil Cooler Spray

- a) Properly lined up with supply water
- b) Test spray nozzles to evaluate plugged nozzles.
- c) Unplug/replace nozzles that are not working correctly.
- d) Verify Delta T across the Lube Oil cooler.

7.4.4 Generator Exciter Fans

- a) Verify all fans are working correctly.
- b) Operational checks for loose hardware, unusual noises.

7.4.5 Main/Aux Transformers

- a) Visual inspection of all fans.
- b) Operate fans in manual
- c) Listen for unusual noises/rotation.

7.4.6 Plant Eye Wash Station

- a) Check eye wash operation/flush
- b) Replace/Repair any broken caps or covers.

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8.0 <u>RECORDS</u>

8.1 Summer Weatherization.

9.0 TRAINING REQUIREMENTS

9.1 Personnel having responsibility assignments associated with this procedure shall be properly trained. All training shall be appropriately documented, and maintained annually.

10.0 ATTACHMENTS

Attachment 1 – Summer Weatherization Check List

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1	Verify all A/C units for control and motor center are properly working	Contractor performed inspections and testing on all	SAT/UNSAT	Initial	Date
		plant A/C units.			
2	Verify CT Lube Oil coolers differential temperatures and pressures are normal	Verified D/T and pressures are in normal range	SAT/UNSAT		
3	Verify Generator Exciter fans are operational	Operationally tested and verified for proper operation	SAT/UNSAT		
4	Verify Generator cooler temperatures and pressures are within range	Verified during dispatched runs.	SAT/UNSAT		
5	Verify all transformer radiator fans are functioning properly.	Operationally tested at each transformer	SAT/UNSAT		
6	Verify all Lube Oil cooler sprays	Function test/verified. All nozzles working	SAT/UNSAT		
7	Plant Eye Wash Stations – Verify lined up.	Function test all eye wash stations for cracked or broken pipes or caps	SAT/UNSAT		
8	Turbine Compartment Vent Fans	Check for proper operation.	SAT/UNSAT		
9	Accessory Compartment Vent Fans	Check for proper operation	SAT/UNSAT		

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Attachment F – CMN-OP-108 – Hurricane Preparedness



Revision:	2
Issue Date:	06/2019
Review Cycle:	Yearly
Procedure ID:	HPRP

Operations and Maintenance

P.H. Robinson Peakers Hurricane Preparedness and Response Plan



Approved by: Mike Tulk – Plant Manager (Original) Date Issued: September 2018

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1. Hurricane Policy

The P.H Robinson Plant will strive to manage maintaining the operation of the Plant until such time that the safety of personnel, contractors, visitors and equipment is threatened or until the Plant is unable to export power.

Should it become necessary to shut the Plant down and evacuate the area, a minimum number of volunteers from the Emergency Hurricane Crew (EHC) identified on Attachment 1 may be asked to remain on site. The crew remaining after the shutdown will monitor the storm and maintain the Plant as well as possible, maintain communications, provide management updates, and facilitate the damage assessment and recovery efforts after the hurricane threat has passed. It is the policy of the Plant for the Plant Manager to not require the Emergency Hurricane Crew members to stay throughout the event if they feel their personal safety is at risk.

Final decisions as to what steps will be taken, and when they occur, will be made by the Plant Manager. The plan of the Plant is to maintain continuous electric service during emergencies if it has been requested and if it's capable of doing so. The Plant Manager will make this determination given the specific conditions and circumstances.

2. Purpose of the Plan

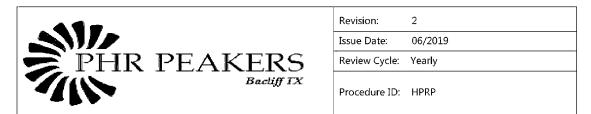
This Hurricane Preparedness and Response Plan (Plan) has been developed to assure that the Plant and employees are prepared in the event that a tropical storm or hurricane weather condition should threaten to strike the Texas coast. The Plan is a complement to the P.H. Robinson Emergency Response developed pursuant to 29 CFR 1910.120(q).

This procedure provides information and outlines steps to protect personnel and equipment against the possible destruction of a hurricane, and is a guideline to follow rather than a set of rigid rules. The severity, speed and expected area of landfall will determine the time that these steps will be taken. The Plant rely on the National Weather Service broadcasts for the latest changing weather conditions and the probability values for possible landfall of a tropical storm or hurricane.

3. Definitions

Hurricane is a tropical cyclone in which the maximum sustained surface wind is 64 knots (74 mph) or greater.

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Hurricane Category under the Saffir-Simpson wind Scale estimates potential property damage. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. See Table 3.1.

Hurricane Category	Pressure (Inches)	Pressure (Millibars)	Wind Speed (MPH)
I	28.94 and up	> 980	74 - 95
II	28.50 - 28.91	965 - 979	96 - 110
III	27.91 - 28.47	945 - 964	111 - 130
IV	27.17 - 27.88	920 - 944	131 - 155
v	< 27.27	< 920	> 155

Table 3.1 Saffir-Simpson Wind Scale¹

Hurricane Season, officially extends from June 1st through November 30th

- *Hurricane Warning* is a warning that sustained winds of 64 knots (74 mph) or greater, associated with a hurricane are expected in a specified coastal area in 24 hours or less.
- *Hurricane Watch* is an announcement for specific areas that a hurricane or an incipient hurricane poses a possible threat to a coastal area, generally within 36 hours.
- **Storm Surge** is an abnormal rise in sea level accompanying a hurricane or other intense storm, and whose height is the difference between the observed level of the sea surface and the level that would have occurred in the absence of the storm.

Storm Tide is the actual sea level resulting from the astronomical tide combined with the storm surge.

Tropical Depression is a tropical low-pressure system in which the maximum sustained surface wind is 33 knots (38 mph) or less.

¹ https://www.nhc.noaa.gov/aboutsshws.php

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Tropical Storm is tropical low-pressure system in which the maximum surface wind ranges from 34 to 63 knots (39 to 73 mph). This is the strength at which the National Hurricane Center applies a name to the storm.

Tropical Storm Warning is a warning for tropical storm conditions with sustained winds within the range of 39 to 73 mph, which are expected in a specified coastal area within 24 hours or less.

Tropical Storm Watch, is a Tropical storm conditions pose a threat to a coastal area generally within 36 hours.

4. Responsibilities

4.1 Plant Manager

The Plant Manager (or designee) is responsible for:

- Overall preparation and execution of the Plan, which includes declaring and terminating emergencies. During such times the Plant Manager responsible for administrative control of all Plant and emergency personnel activities.
- Assessing the impending weather situation and determining if and when to evacuate employees and whether to close down either Facility.

4.2 Control Room Operator (CRO)

The Plant Manager will designate two CRO with different shifts which will be responsible for:

- Developing the Hurricane Prevention and Response Plan
- Checking and maintaining emergency supplies
- Tracking and informing the Facility Manager of impending hurricanes
- Providing technical assistance and personnel accountability during emergencies, and
- Ensuring Plant areas and equipment are secured in advance of the storm

4.3 Plant Personnel

Plant personnel are responsible for:

- Securing all Plant equipment
- Checking and removing potential air borne objects from the Plant premises, and
- Providing emergency plant operations and maintenance.

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If the Plant will remain open during the storm, employees should complete all necessary advance preparations to secure their family and homes and be prepared to report for emergency duty when called. Due to the limited capabilities, employees should not seek Plant site shelter for their families.

5. Procedure

The following procedures will be followed should any of the listed scenarios occur:

5.1 Hurricane Season Preparation

The start of hurricane season is June 1. As part of preparing for hurricane season, the Plant shall:

- Conduct a Hurricane Preparation Drill to ensure that the Plant is prepared should a hurricane occur in the area.
- Begin closely monitoring local weather forecasts and N.O.A.A weather forecasts for early signs of tropical storm warnings.
- All employees will review the Plan, which will be discussed and registered in the May Safety Meetings signing-sheets until all personnel are accounted for.
- Maintain a hurricane tracking data log (Attachment 4).
- Ensure that the items listed for the Hurricane Kit (Attachment 2) are available. If not available, place order to complete the kit.
- Check condition of Plant roads and initiate repairs as needed.
- Check employee rain gear supplies.
- Check condition of doors, windows and compartment/building doors and initiate repairs as needed.
- Check condition of telephone and radio systems and initiate repairs as needed.
- Check first aid kits (Attachment 3) and restock if necessary.
- · Check conditions of portable and stationary sump pumps and repair if necessary

5.2 Hurricane Watch

A tropical storm/hurricane has formed and has entered the Gulf of Mexico and has become a potential threat to the immediate area within 36 hours.

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- Check schedule for available duty personnel and notify those people to maintain their readiness for call out (i.e., bedding, change of clothes, personal hygiene items, medications, special dietary needs, etc.).
- Prepare emergency food supply.
- Check supply of treatment chemicals and all calibration gases; order as needed.
- Move mobile equipment to safe area to be tied down if it becomes necessary.
- Ensure that plant truck and utility vehicles are fueled.
- Pick up and secure all loose objects throughout the sites.
- Collect all exposed fire extinguishers, etc. and place them inside a secure enclosure.
- Secure all doors and windows on all buildings, skids and turbine compartments.
- Distribute tarps and rope, as needed, in control room, electronics room and switchgear enclosures.
- Tie down all compressed gas bottles.
- Secure all instrument and electrical junction box covers.
- Empty all trash receptacles and place them indoors. If possible, move trash dumpster into storage building area.
- Ensure transformer pit drains are open.
- Top off all tanks.

5.3 Hurricane Warning

A warning has been issued by the National Weather Service that sustained winds of 64 knots (74 mph) or greater, associated with a hurricane, are expected in a specified coastal area in 24 hours or less.

- The Plant Manager will decide whether and when to shut down the Plant and send employees home.
- If Plant will close, shut down all units utilizing shutdown procedures.
- Review section 5.2 and walk down plant to ensure all items have been completed.
- Control Room Operator will continue to monitor the progression of the storm and will continually update the Plant Manager.
- Transfer predetermined files to the chosen safe location. Back-up computers files onto discs and remove discs to safe location.
- Cover computers and other electronic equipment with plastic to protect against water damage.
- All emergency duty personnel shall remain at the Plant until released.

5.1 Hurricane at Hand

This phase starts when weather conditions make work or travel outdoors hazardous. When wind speed exceeds 50 mph, all outside movement should be avoided if possible.

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At this time, all staff must wear a safety harness if it becomes necessary to go outdoors, so they may be able to tie off when possible. If it becomes necessary to go outdoors, no employee will work or make rounds alone.

5.2 Post Emergency

This phase begins when weather hazards have passed. Although the storm may have passed, hazards may still exist due to water and wind damage that may present hazardous conditions to personnel and equipment.

- Walk down the Plant to assess damage. Make an accurate report of all damage and repairs needed. Use video and photographs to document damage.
- Review the Plan for improvement.
- Restore all hurricane supplies

6. Other Natural Phenomena

This section applies to natural phenomena that may be experienced at the Plant, including, but not limited to, tornadoes, strong winds, or flooding. The following steps will be implemented should any of these conditions be experienced:

6.1 Verify and Assess

Upon observance of abnormal weather conditions, the Plant personnel will utilize every possible means at hand to determine the potential or real threat of the situation to personnel safety and the facility.

- Immediately notify the Plan Manager upon observance of the weather condition.
- Contact the National Weather Service or use the control room weather radio to determine the exact conditions in the area.
- Be aware of any information being provided over the Emergency Broadcast System regarding the conditions and actions required

6.2 Classify and Notify

The Plant Manager shall determine the severity of the conditions and declare the appropriate Emergency Classification (as specified in the Emergency Response Plan).

6.3 Action

The Plant Manager shall determine the severity of the conditions and declare the appropriate Emergency

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Classification (as specified in the Emergency Response Plan).

7. Resources

FEMA (http://www.fema.gov/)

Houston/Galveston National Weather Service Office (http://www.srh.noaa.gov/hgx/)

Texas Department of Public Safety (http://www.txdps.state.tx.us/dem/)

8. Attachments

- Employee Phone List
- Hurricane Kit List
- List of Food, Personal Hygiene & Miscellaneous Items
- Hurricane Tracking Data Log

9. Records of Change

Revision	Issue Date	Description of Change	Changed By (name)	Approve (name)
Draft A		Initial document	R. Lee	M. Tulk
1	6/2019	Updated supplies list	R. Lee	R. Lee
2	6/2020	Updated Contact list	R. Lee	R. Lee
3	8/18/2021	Updated Contact list	J. Webb	R. Lee
4	3/7/2022	Updated contact list	J. Webb	R. Lee

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Attachment 1 - Employee Phone List

NAME	TITLE	WORK PHONE	HOME PHONE	CELL PHONE
Roger Lee	Plant Manager	(713) 299-2017		(727) 488-0817
Jacob Webb	CRO - EHC	(832) 917-7654		(832) 917-7654
Patrick Daly	CRO			(727) 492-0331
Ron Dennison	CRO			(832) 593-1674
Clyde Mahan	CRO			(520) 253-0195
Woody DeBenedictis	IC&E Tech			(830) 832-7553
Destini Wilson	Plant Admin			(337) 309-0121
Kyle Miller	OMT - EHC			(979) 864-5391
Ryan Moore	OMT			(510) 384-3943
Joel Ayala	OMT			(832)977-0556
Corbin Gilbert	ОМТ			(979) 665-8828

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Attachment 2 – Hurricane Kit List

Quantity	Item	Check 1 st week of June
1 case	AA-BATTERIES	
1 case	C-BATTERIES	
1 ea	COLEMAN PROPANE STOVE	
6 bottles	PROPANE CAMPING GAS	
1 ea	POT / PAN (Cooking utensils)	
1 ea	BATTERY OPERATED WEATHER RADIO	
1 roll	ROPE (1/2" POLYESTER, 6LB., 100')	
6 rolls	DUCT TAPE (2" W X 60 YDS LONG)	
1 ea	CAN OPENER	
1 roll	PLASTIC SHEETING	
4 boxes	LARGE TRASH BAGS	
2 ea	FLASHLIGHT	
-		

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Attachment 3 – List of Food, Personal Hygiene & Miscellaneous Items

Emer	gency Supplies-Hygiene & Misc.	Emergency supplies-FOOD Non Perishable		
Quantity	Check Description	Quantity	Check	Description
10 cases	Bottled Water	6 cans		Beef Stew
12 rolls	Toilet Paper	6 cans		Chili
3 cases	Clorox Wipes	6 ea		Tuna Starter Kits
6 each	Toothbrushes	6 cans		Chicken & Dumplings
2 each	Tooth Paste	6 cans		Spaghetti-O's
2 each	Air Mattress	6 cans		Campbell's Chicken Noodle Soup
6 rolls	Paper Towels	1 jar		Peanut Butter, Jelly
3 cans	Disinfectant Spray	6 boxes		Saltines
2 bottles	Hand Sanitizer	2 each		Fritos, Large Bags
2 boxes	Gallon Zip Lock Bags	3 boxes		Dry cereal
2 cases	Paper Plates	6 boxes		Breakfast Bars
2 boxes ea	Forks, Spoons & Knifes	12 cans		Vienna Sausages
1 box	Strike anywhere matches	4 bags		Beef Jerky
3	Emergency Candle	6 cans		Canned fruit
		_		
		_		

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Attachment 4 - Hurricane Tracking Data Log

			Pos	ition	Wir	ıd
Date	Time	Name	Latitude	Longitude	Direction	Speed
						-

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Pandemic Preparedness and Response Plan

Safety Manual Program (SMP)

Introduction

Purpose:

The purpose of this procedure is to provide a coordinated and comprehensive response to a pandemic event in order to help ensure continuation of operations.

The procedure describes potential pandemic threats, identifies and prioritizes the critical operations and business functions of this facility, and provides appropriate response guidelines.

The information in this Plan is based on generally accepted assumptions about the development, outbreak, and expected progress of an influenza pandemic. Site-specific information required for implementing this Plan (contact lists, recovery details, etc.) is provided in Appendices A through G at the end of this Procedure. Control and survival of a pandemic will depend on the ability of thoughtful individuals to conduct a well-planned and well-organized response. The ultimate objective of this Plan is to prepare those individuals for success.

Scope:

All NAES Employees, All Site Personnel

References

Terms and Definitions:

Term:	Definition:
RTO (Recovery Time Objective)	The period of time within which systems, applications, or functions must be recovered after an outage.
WRT (Work Recovery Time)	The period of time needed to complete the disrupted work on a recovered/repaired resource in order to return it to normal operational status.

Other References:

Center for Infectious Disease Research and Policy, University of Minnesota North American Electric Reliability Council United States Center for Disease Control U.S. Government Public Information Site World Health Organization Site

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DHS site (U.S.) Public Health Agency of Canada

Responsibilities

1 PLANT STAFF

- Brainstorm critical business functions and priorities
- Determine locally appropriate mitigations
- Prepare and test draft Pandemic Response Plans
- · Assist employees with family care plans
- · Manage work continuation if a pandemic strikes
- If NAES corporate management is not available, plant managers shall take control

2 CORPORATE

Plan Development

- Recognize threat and authorize a planning and response effort
- · Identify critical departments needing response plans
- Require preparation of approved Pandemic Response Plans
- Provide schedule for preparation of Plans
- · Request draft policy changes needed for pandemic management
- · Adjust strategy and response level as needed

Pandemic Management Program Team Inputs

- Pandemic threat and impact information
- Program coordination
- Initiation criteria
- · Threat monitoring updates
- Department pandemic management plan templates and coaching
- Coordination with support departments (Human Resources, Information Services, etc.)

NAES Headquarters Inputs

- General pandemic information (issues, impacts, mitigation strategies, pandemic management, suggested plan outline)
- Guidance and coaching
- Plan templates
- Family care outline and websites

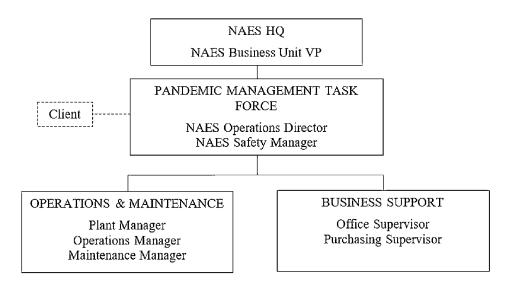
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3 EMPLOYEE

- · Perform critical department work if a pandemic strikes
- If management is not available, senior personnel will provide leadership
- · Remain individually healthy by following guidelines
- Review family care outlines and websites; prepare a family response plan and discuss with family members
- · Stockpile essential supplies

4 PLANNING RESPONSIBILITIES

The diagram below is the organization chart for the NAES Pandemic Management Program Team (PMPT) for this facility. The PMPT task force is responsible for the preparation, the continuing readiness, and (if needed) the implementation of this Plan.



Policy

(1) PANDEMIC CHARACTERISTICS

A. Timing and severity of the outbreak of a pandemic are uncertain and may not be immediately recognized. The most feared pandemic strains (such as SARS, COVID-19, avian influenza or "bird flu", H5N1) exhibit the following characteristics:

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- A.1. Able to cause severe disease in humans.
- A.2. Global human population has no pre-existing immunity.
- A.3. Able to spread rapidly through human-to-human contact.
- B. Once human to human transmission begins, the disease will spread very rapidly around the world within three to eight weeks. It is likely that 20 to 30 percent of global population will contract influenza during the first wave and will become very ill for several weeks. Additional waves will follow over one to two weeks.
- C. Absentee rates for employees may be in the range of 25 to 60 percent for the duration of the pandemic, due to employee illness and to other factors such as caring for family members. Absentee rates will normally vary across an organization based on location and isolation.
- D. With the expected high percentage of ill people, the existing healthcare system will be overwhelmed. Most government and health organizations will not have sufficient stockpiles of anti-viral agents or vaccines to treat those who are exposed or who will become ill if a pandemic occurs in the next one to two years.
- E. Persons who contract the virus are not expected to contract it a second time due to a buildup of personal immunity. However, if the virus mutates, recurrences for the same individuals could be possible.
- F. Personnel management will need to be modified to continue essential plant operations and business processes, while minimizing the spread of the virus.
- G. The organizational response will need to include the distribution of accurate and timely information to employees, families, and customers.
- H. Because of the percentage of affected people around the world, global trade and the global economy will be significantly impacted by the pandemic, limiting the supplies of food and manufactured goods.
- Other cross dependencies with other segments of the utility sector (generators, transmission operators, distribution providers) and other critical infrastructure (communications, nuclear, natural gas, petroleum, transportation, emergency services, etc.) as well as contractors and suppliers will be severely tested during influenza pandemic.

2 PANDEMIC PHASES

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Information developed by the World Health Organization (WHO) defines five phases of a possible pandemic as listed below. These five phases provide a useful framework for pandemic response planning.

A. Phase 1 - Pandemic Alert

Governments, owners, and operators are notified that a pandemic is possible and preparedness plans should be reviewed and updated.

B. Phase 2 - Pre-Pandemic

Localized outbreaks are occurring with human-to-human transmission. Governments and electricity sector entities begin to assign resources, prepare staffing, and implement contingency plans. Begin an information distribution program to promote appropriate responses by employees.

C. Phase 3 - Pandemic Outbreak

General outbreaks across borders and continents. Organizations implement response plans.

D. Phase 4 - Maximum Disruption

High absentee rates occur, and fatalities begin to impact the workforce. This phase could last for several months.

E. Phase 5 - Prolonged Recovery

Recovery will be slow, and the underlying economy will weaken. Altered business conditions will be prevalent for large and small firms. This phase will last for at least three months and possibly up to six months.

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③ PANDEMIC RESPONSE PLAN DEVELOPMENT

This section will provide guidelines for corporate departmental planning to meet the challenges of an influenza pandemic. Various charts and tables (see Appendices A, B and C for details) are provided for planners to use during these assessment processes. Some limited information (typically applicable to power plant operations) has been included in these tables for demonstration purposes, but each organization shall develop a site-specific Plan by filling local information into the various assessment tables provided in this Section. Any text that is highlighted in yellow in these tables has been inserted only as an example of a possible data entry.

A. Business Processes Assessment

In planning for a potential Pandemic, it is important to identify the major business processes in the organization. It is also important to determine the critical inputs that are needed to accomplish those processes. Other departments in the company may depend on some of your organization's output to do their work. The most important outputs should also be defined.

As you identify critical inputs and outputs, consult with upstream and downstream organizations. They may have priorities that are different from your own and negotiation with them may be necessary. Critical information should include Contact Lists, Vendor Lists, etc. To set the Priority Ranking, #1 is for most important, and #5 is for least. For example, the critical business functions needed for the business to survive should be in the #1 category.

A "Major Business Functions" assessment chart is recommended as a starting point for the NAES Pandemic Management process. An example of this table can be found at Table 1. at the end of this procedure. In addition, several follow-up assessment charts are also available at the end of this document.

B. Pandemic Risks Assessment

Once the major business processes have been identified, it will be important to determine what the largest risks to those functions are. What problems would be caused by loss of key staff inside or outside of the company (loss of key department personnel, loss of vendors, bankruptcy of a large customer, stock market crash, late or no payments, inability to communicate with other businesses, failure of service providers, etc. Once these largest risks are determined, appropriate mitigation strategies can be established. These risks should be detailed in a table similar to Table 2. located at the end of this document.

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C. Loss of Key Personnel

C.1. For Pandemic Only

This case differs from the normal Business Continuity case because all the supporting departments and vendors that the department might call upon in an emergency will also be having a personnel shortage. This means many more vendors will be needed, more work must be cancelled or postponed, and more drastic measures to protect the remaining employees must be taken. Develop a table detailing the recovery strategies similar to the examples in Table 3. at the end of this document.

C.2. For Influenza Pandemic with Emergency Succession

It is critical to identify key personnel doing critical work for each major business function. These key persons are those personnel without whom, the Major Business Function could not be done. This might be a senior department employee, group leader, or supervisor.

Create a table similar to the example Table 4. At the end of this document naming the current key personnel, enter the name(s) of the person(s) that could take over the work in an emergency where the current key person is not available. In other words, Table 4. is an emergency succession plan for the work that is most important to the company.

D. Employee Critical Skills Inventory

Create a table similar to Table 5. at the end of this document listing personnel who have skills in high demand critical areas that could fill in for others in an emergency. The example table lists some typical skill sets for plant operations but should be modified as needed for the skill set categories that suit your department's needs.

E. INFORMATION SYSTEM (IS) INVENTORY

E.1. Critical Systems

Create a table similar to the example Table 6. found in the end of this document listing the critical Information Systems and IS Applications which are essential to the most important work done in the department. The following acronyms used in the table are defined as:

RTO (Recovery Time Objective) - The period of time within which systems, applications, or functions must be recovered after an outage.

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WRT (Work Recovery Time) - The period of time needed to complete the disrupted work on a recovered/repaired resource in order to return it to normal operational status.

E.2. Loss of Software, Hardware or Data Assets

Create a table similar to Table 7. found at the end of this document to help listing the facility hardware loss strategy. In the event that your critical IT Systems and Applications are not available, what is your strategy to continue work? Would you use a simple Excel spreadsheet to record and manipulate data until the main application was restored? Would you use another application that could do some of the important functions? Is there an old or newer program that would work? Would you cease work? Are there any other relevant questions?

E.3. Recovery of Lost Software, Hardware, or Data Assets

Assume that the loss of Software, Hardware or Data Assets scenario has occurred, and the recovery team has been activated. The general strategy from the previous sections applies but more detail is needed to describe the steps that would be taken.

To capture the detailed tasks that must be initiated, create a table similar to the example Table 8. found at the end of this document and indicate which member(s) of the recovery team (e.g., team leader, team member, or names of individuals) will perform it.

Detailed current backups of the software and systems in Table 8. are maintained on file in a fireproof cabinet in an area separate from the main control area.

E.4. Pandemic Plan Validation

Identify the known gaps, issues and problems with this Pandemic Plan that would make it difficult to succeed, contribute to its failure or make the recovery from a significant event slower and less efficient. Identify the expected time frame to eliminate these problem areas. If an economic, time related, organizational, or technical issue is causing the gap, include the description of this cause. Describe the gaps in order of importance, with the most important one listed first.

E.5. Qualified CROs

- a. Long term action is to get APOs sufficiently trained and qualified to fill in as CROs.
- b. Cross training of plant personnel is required for better flexibility.
- E.6. Limited Vendor Resources

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- a. Resources critically tied to interstate transportation. These include lime, soda ash, hydrogen, caustic, acid, and ammonia.
- b. Some staff may not be from the local area. This makes alternate transportation more difficult and timely relief for ill personnel may not be readily available.

(4) THREAT MITIGATION - GENERAL GUIDELINES

The purpose of a Pandemic Management Program is to assist NAES plant management in preparing for a potential pandemic by developing plans to manage the threat. The actions listed below could be taken by all departments to help them minimize the impact if the pandemic threat becomes real.

- A. Review existing emergency plans (see Appendix D) and contact lists (see Appendix F). Update these and inform essential personnel.
- B. Update the contact list of all employees in your department (see Appendix E). Include after-hours contact number(s); some of these phone numbers may be out of this region, such as parents, or other family members or friends.
- C. Identify employees and key customers with special needs and incorporate the requirements of such persons into your preparedness plan.
- D. Consider the impact of community containment measures and quarantines, school and/or business closures, and public and financial institution closures.
- E. Expand the use of teleconferencing and video conferencing to limit the frequency of meetings and other types of face-to-face contact.
- F. Implement guidelines to modify the frequency and type of face-to-face contact (e.g., handshaking, seating in meetings, shared workstations) among employees and between employees and customers.
- G. Train and prepare ancillary workforce (e.g., contractors, employees in other jobs or other departments, retirees, etc.).
- H. Develop cross training programs to assure adequate staffing of essential functions; consider strategies such as developing "job sheets" that outline key activities by position.
- I. Consider a transportation plan in case of fuel shortages and loss of public transportation.
- J. Develop a plan to send home non-critical staff and shift workers to home offices or other sites or change work hours that would minimize exposure risks, address potential fuel shortages, and curtail dependence on public transportation.

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- K. If services are contracted to outside organizations, contact vendors, and find what type of contingency plans they may have in place.
- L. Consider the impact of a disruption of social systems and services on your organization (assume the possibility of no response or slow response from emergency first responders, other basic services not available, etc.)

5 MITIGATION STRATEGIES

There are several possible risks and mitigations to be considered when planning your strategies. Appendix A contains a listing of the most common risks and the associated mitigations. Each specific facility or department may have more or different risks than those listed in Appendix A.

A. Protect Work Force

A.1. Protect the workers that you have.

- A.2. Provide the personal protective equipment that may be needed.
- A.3. Minimize meetings and face to face contact.
- A.4. Wherever possible, get priority medical treatment arranged.
- A.5. Provide essential medical training for on-site emergencies.
- A.6. Gather the contact phone numbers for your employees and their "out of area" contact numbers (see Appendix E).
- A.7. Be prepared to have an alternative way to transport essential employees to work or locations where they can work.
- A.8. Consider the impact of civil unrest and a breakdown in social order if police, fire, and other personnel are not available. How will you protect your work site and employees?
- A.9. Should you be prepared for some employees to live on the work site for several days or weeks?

B. Help Employees Protect Their Families

B.1. Provide information so employees can protect their families and can feel free to work.

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- B.2. Provide the personal protective equipment that may be needed.
- B.3. Counsel employees that need help coping with illness or losses.

C. Augment the Work Force

- C.1. Broaden the vendor base in type and geographic area.
- C.2. Gather the contact phone numbers for your vendors and their after-hours contact numbers.
- C.3. Ask that your most critical vendors also have and carry out Pandemic Planning and Mitigation.
- C.4. Ask to see their plans and be briefed on them.
- C.5. Identify groups of additional workers from other departments, retirees, employment agencies, etc. The lists should be long and geographically diverse.

D. Protect Work Processes

- D.1. Be prepared to alter your work process and use alternative methods. Your normal software may become disabled due to routine failure and there may not be personnel to get it repaired. Your software or application recovery may not be on a high priority list.
- D.2. Cross train your personnel to be more generalists rather than specialists so they can support and stand in for each other.
- D.3. Is it possible for vendors to help with more routine work or to outsource some of the work?
- D.4. Buy, write, or update procedure or instruction manuals so that a broader segment of the department could do the work. Train the work force on these procedures.
- D.5. Maintain essential data on backup CD-ROMs or other sources. Make sure several people know how to access this data.
- D.6. Move some processes away from "just in time" methods. The "just in time" processes might collapse when critical materials or data are not available. Some stockpiling or source diversification may be necessary.
- D.7. How will you work if the city or state is broken up into quarantined areas?
- D.8. Have a current and workable succession plan.

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E. Stockpile Resources

- E.1. Stockpile critical materials (parts, supplies, protective equipment, routine but necessary supplies, fuel, etc.)
- E.2. Consider alternative transportation methods to get workers to and from work.
- E.3. Consider storing bottled water, canned goods, and emergency meals. Include flashlights, batteries, radios, masks, disposable gloves, soaps and disinfectants.

F. Reduce Non-Essential Work

- F.1. Each department should identify its most critical business functions and the overall mitigation strategies for them. Determine what lower priority work to cut.
- F.2. Each department should determine its essential inputs needed for its work and the critical outputs that others need for their work.
- F.3. Reduce work to the most important tasks.
- F.4. Reduce personal contact and make essential contact safer.
- F.5. Have people work from home where possible.
- F.6. Reduce or "sanitize" customer contact.
- F.7. Teach proper hand washing, use of sanitizing wipes, use of disinfectant soaps, proper use of effective masks and gloves and other personal protective measures.
- F.8. Teach people how to handle potentially contaminated material from other people.

G. Develop Communication Plans

- G.1. What are the essential information data and messages that need to reach employees, vendors, their families, vendors, customers, and the public?
- G.2. What is the structure of these messages, what is the likely content that is needed?
- G.3. Develop specific, honest, timely and helpful messages that give the whole, unvarnished truth. Have these messages available and ready to fill in the blanks.
- G.4. Have enough people to do the information gathering and to do the communicating.
- G.5. Test the messages on people outside of the communications department. Are the messages clear and do they give the intended information?

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G.6. What alternative ways will the company use to communicate if normal services are not available? Can Webcasts, internet sites, phone recordings, or other sources be of help?

Attachments

SMP-20 Appendix A: Matrix of Major Risks and Mitigations

SMP-20 Appendix B: Critical Equipment and Materials

SMP-20 Appendix C: Vital Records and Storage

SMP-20 Appendix D: Plant Specific Manuals and Procedural Inspections

SMP-20 Appendix E: Employee Contact List

SMP-20 Appendix F: Emergency Contact List

SMP-20 Table 1: Major Business Functions

SMP-20 Table 2: Largest Risk to Major Business Functions

SMP-20 Table 3: Recovery Strategies

SMP-20 Table 4: Key Personnel and Critical Functions

SMP-20 Table 5: Critical Skills Inventory

SMP-20 Table 6: Work Recovery Time

SMP-20 Table 7: Information Systems (IS) Recovery Strategies

SMP-20 Table 8: Detailed IS Recovery Strategies

Revision Management

Revision History Log:

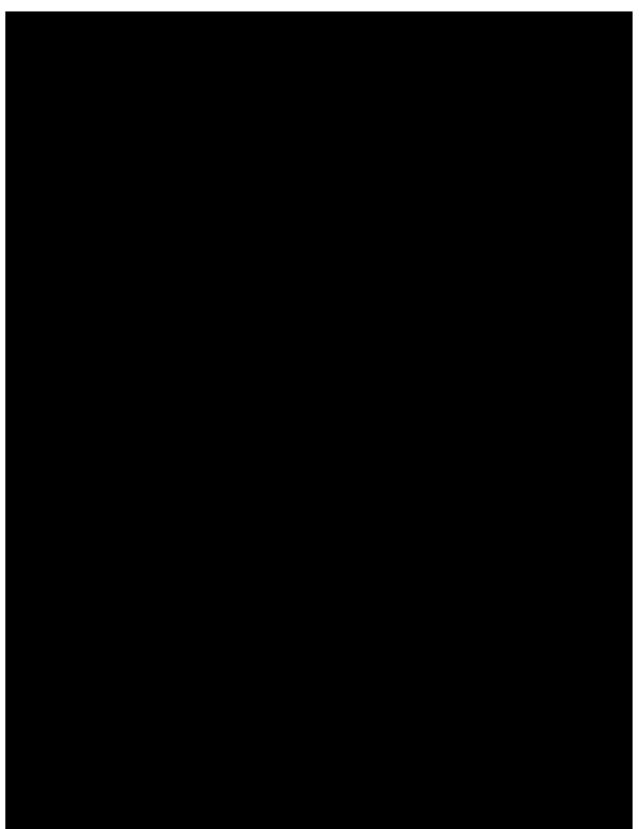
Revision #:	Date:	Nature of Change:	Recorded By:
R0.1		Corrected spelling mistakes and other clerical errors.Added 4. Planning Responsibilities and diagram diagram under Responsibilities. Tables moved to the bottom of the document as attachments and corresponding references updated.	Alex Tan
R0		Final QC prior to Publication Conducted - Moved to R0 -	Alex Tan

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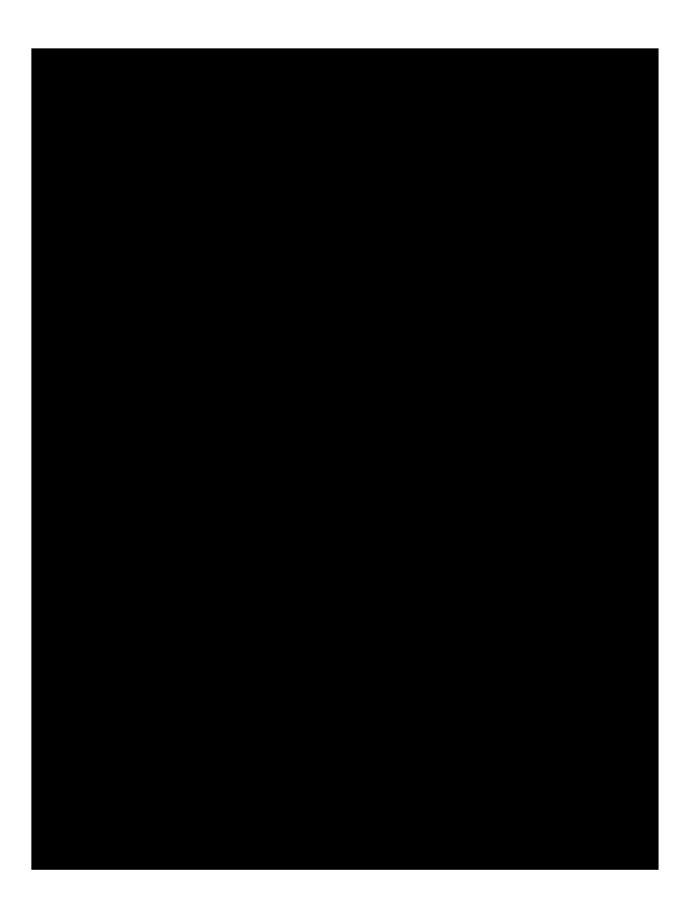
Pandemic Preparedness and Response Plan STD-SMP-20 R0.1

Revision #:	Date:	Nature of Change:	Recorded By:
		Published to Portal	
D1.0	3/12/2019 4:19 PM	New document	Jason Schuler

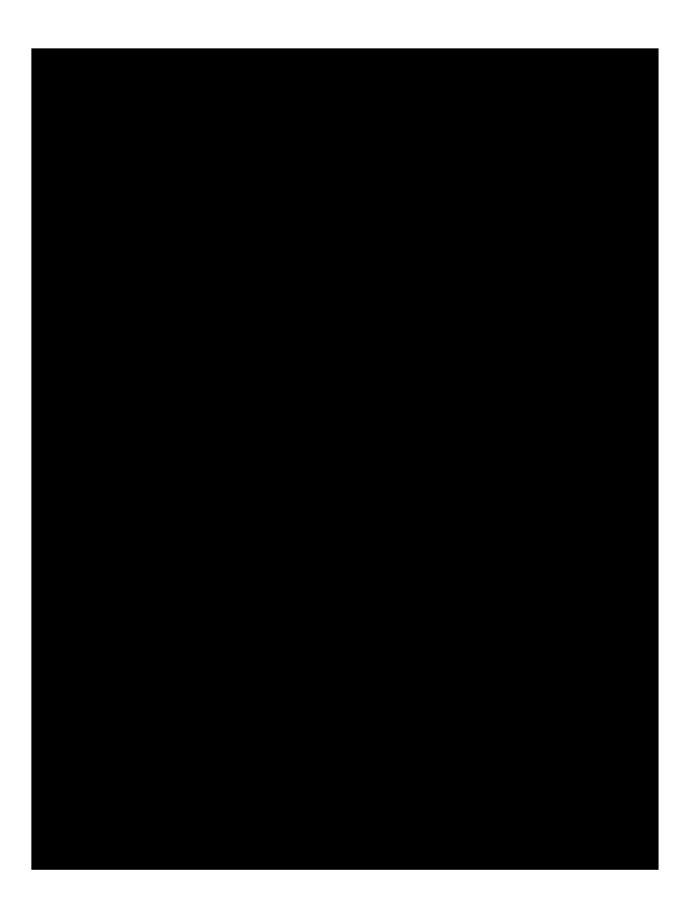
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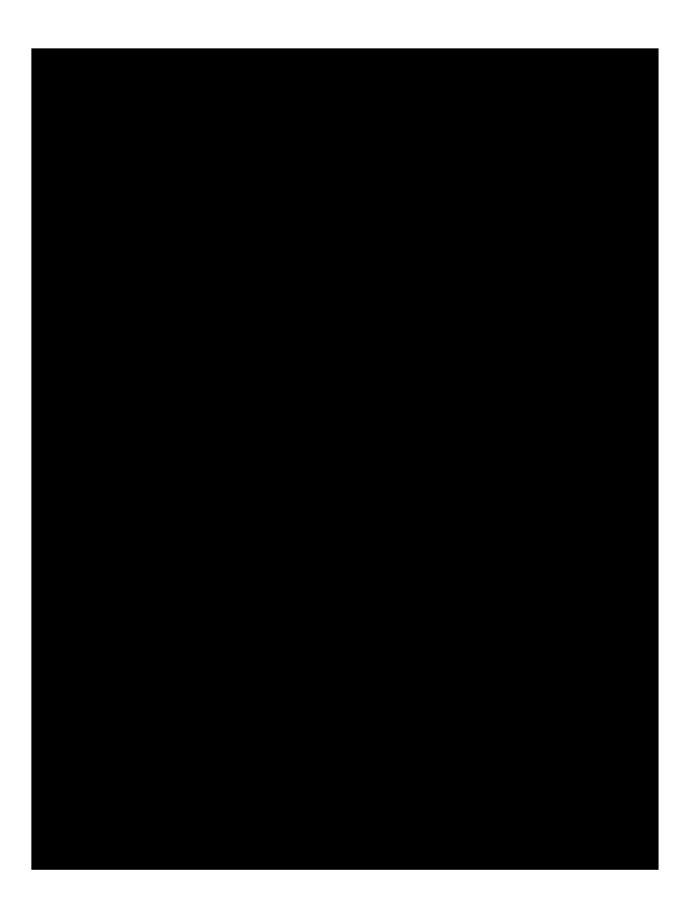


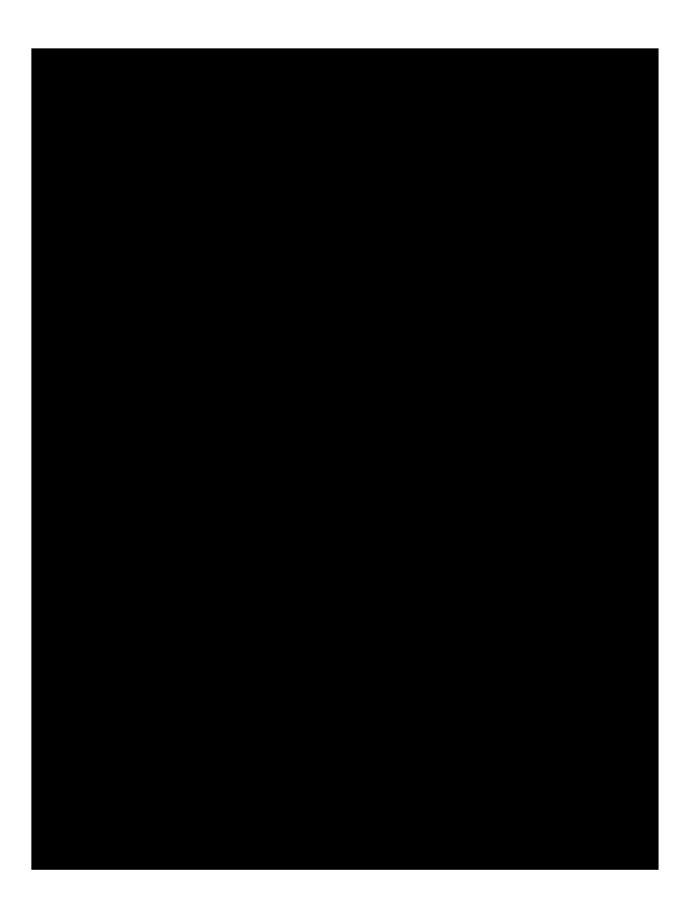
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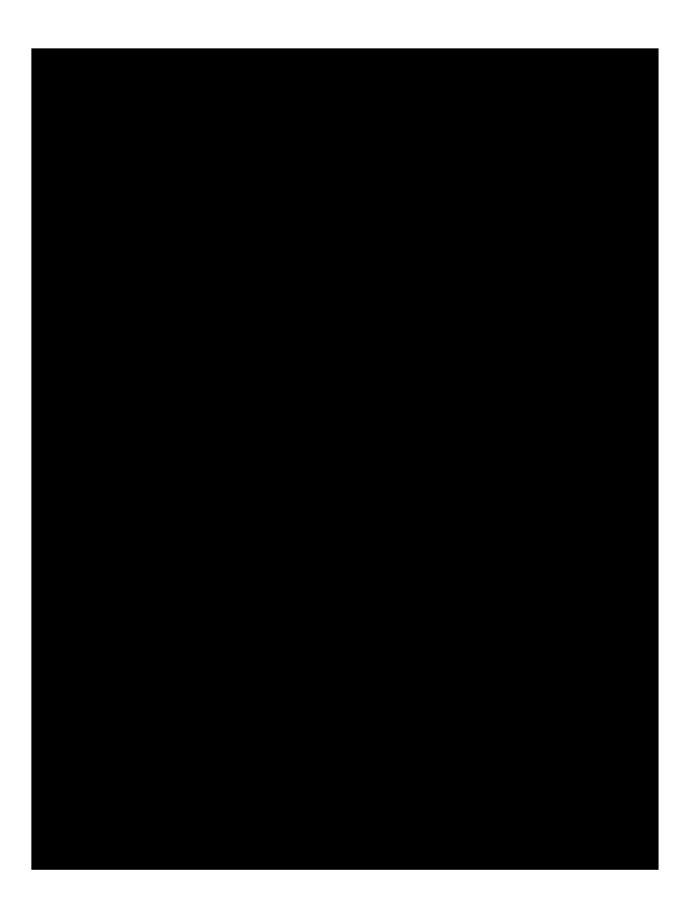




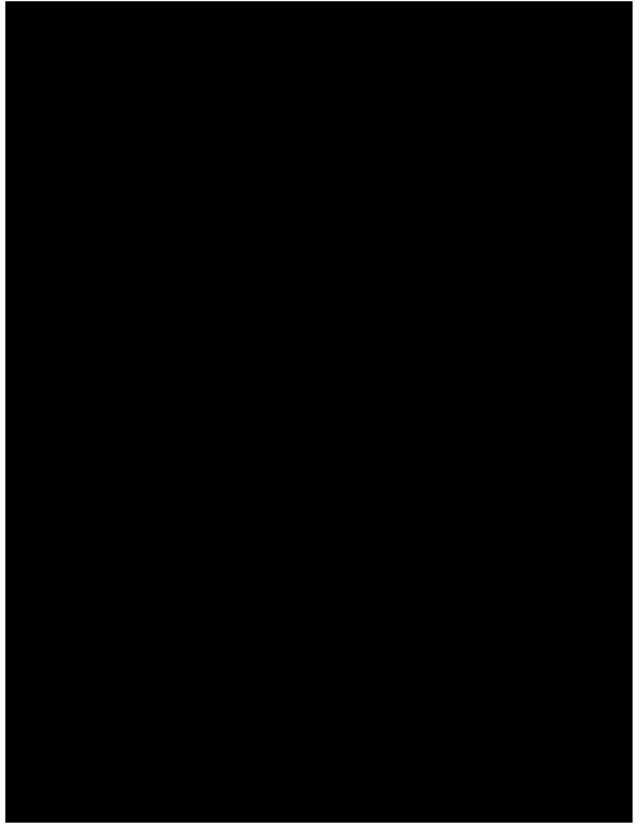


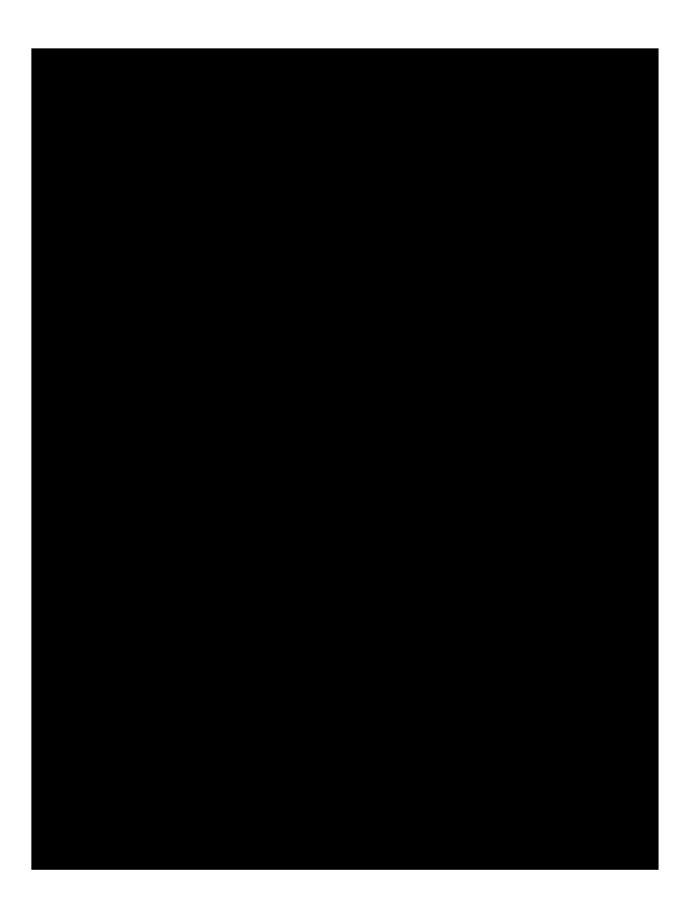


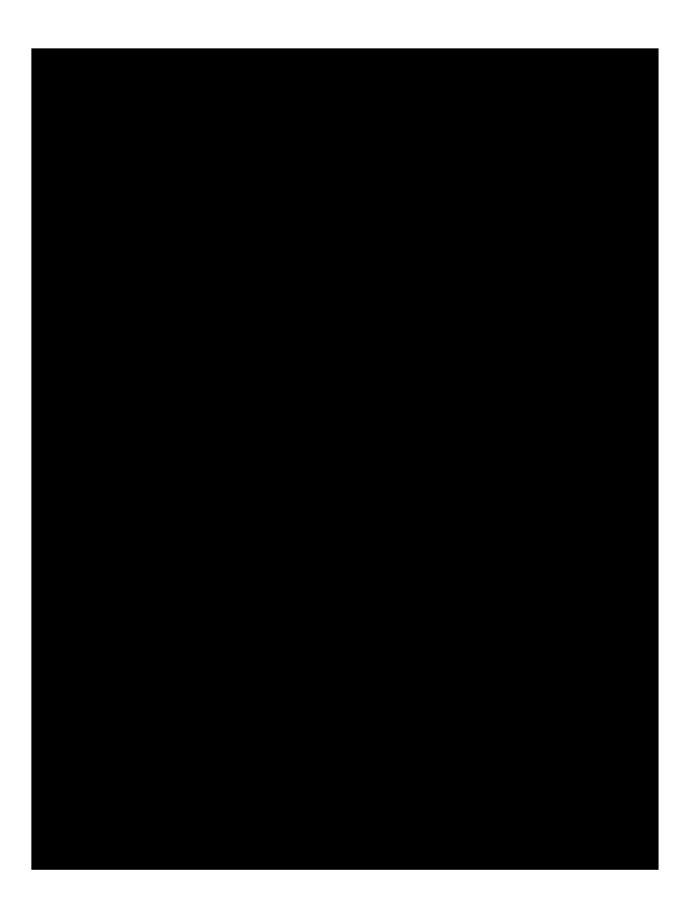


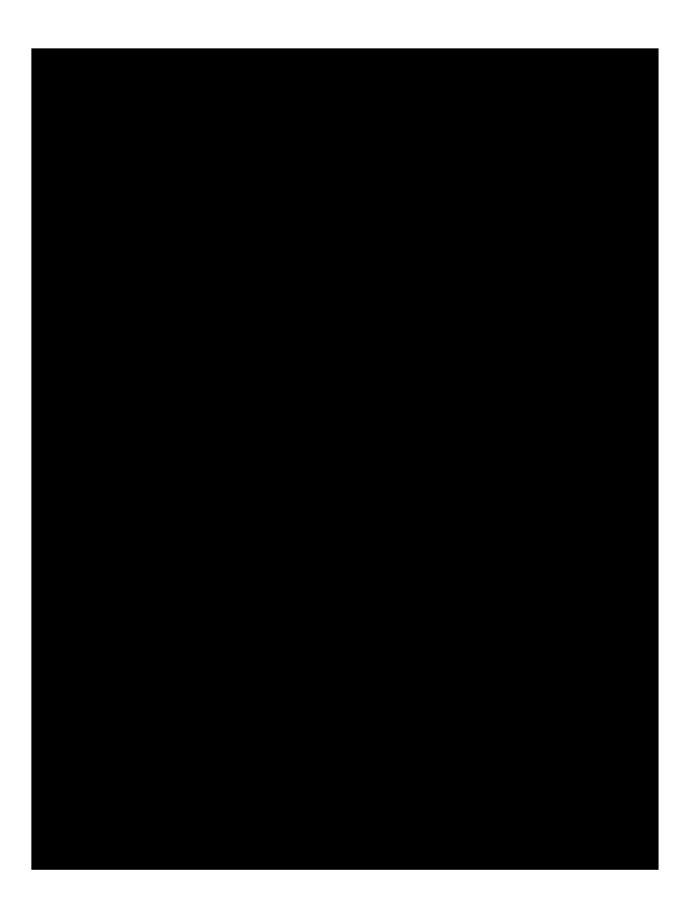


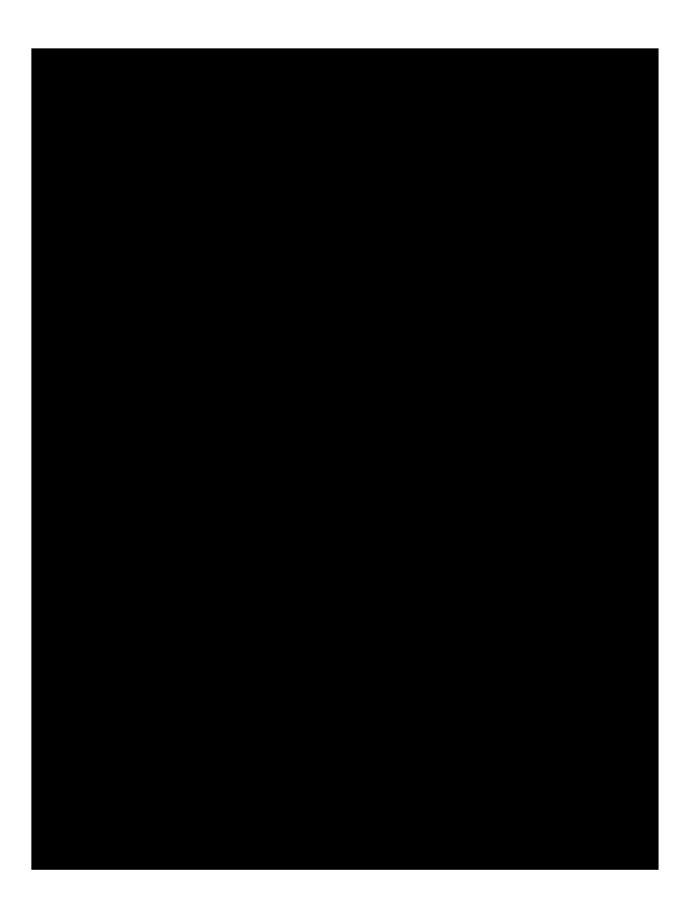
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Attachment I – CIP-003-7 Cyber Security – Cyber Security Incident Plan
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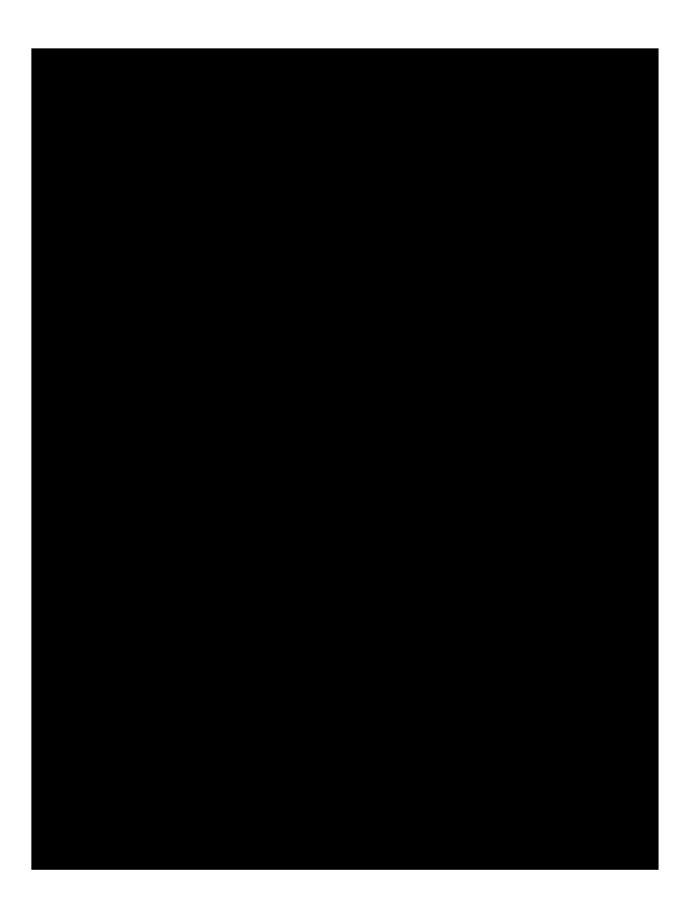


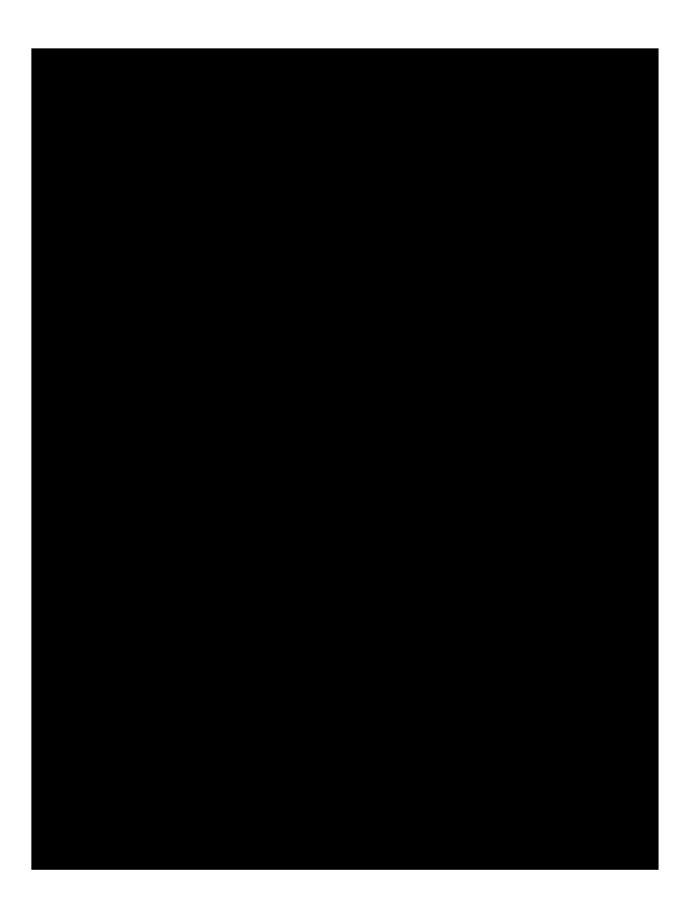




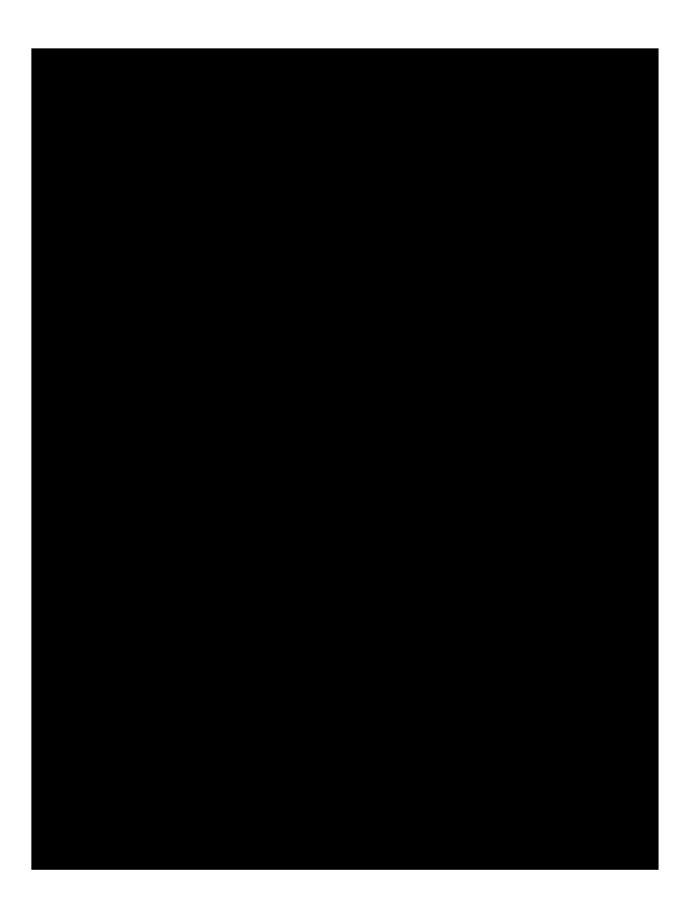




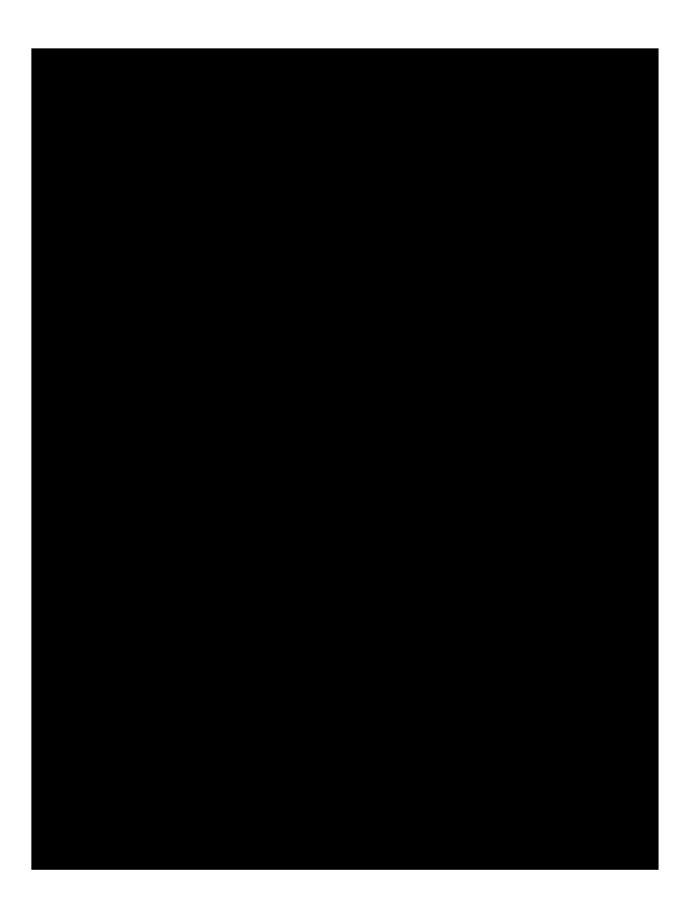






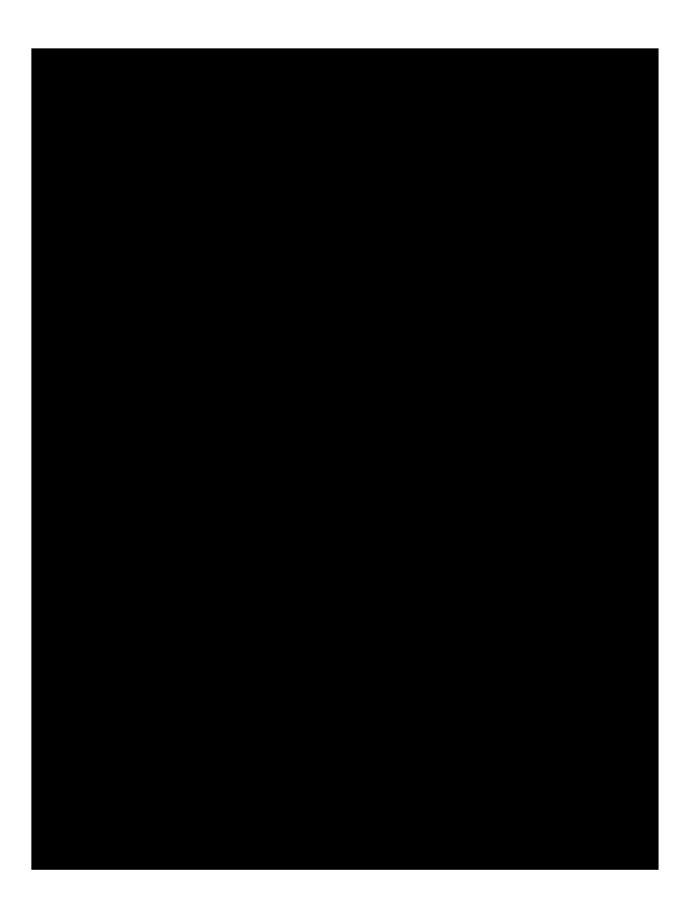


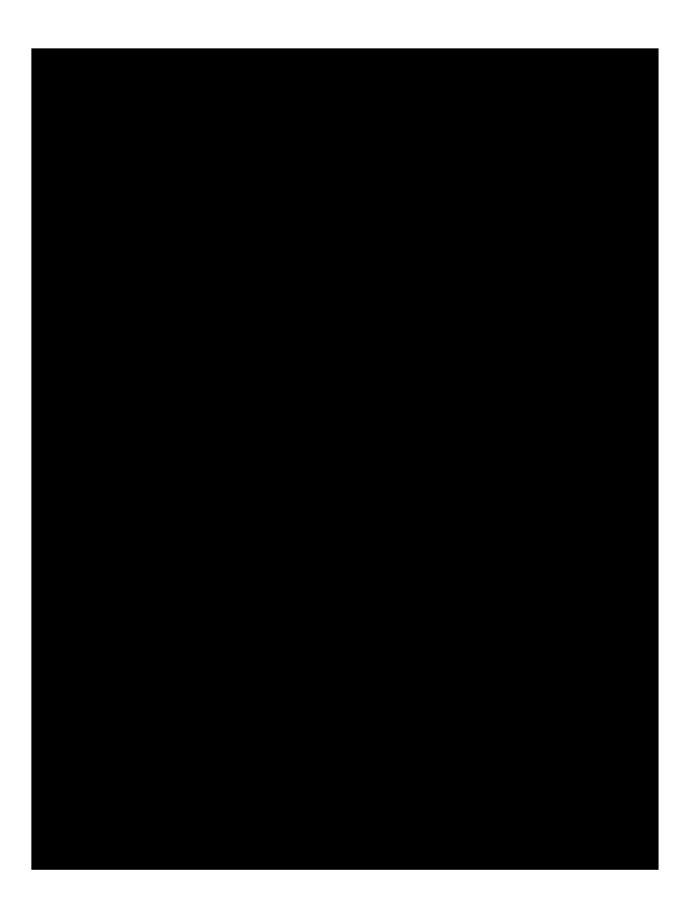


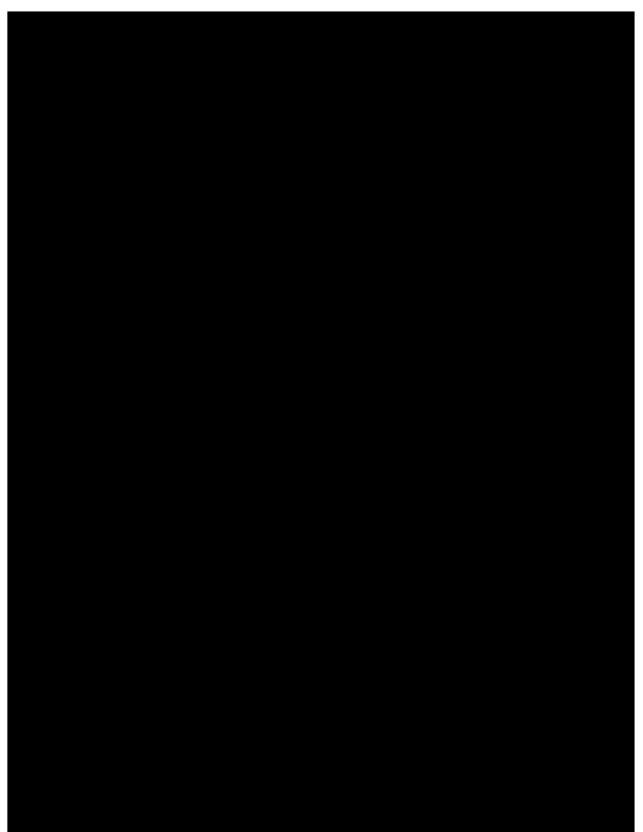


Attachment J – Business Continuity Plan









Attachment K – Return from Black Plant Procedure

