

## **Lost Pines Power Park** Sim Gideon

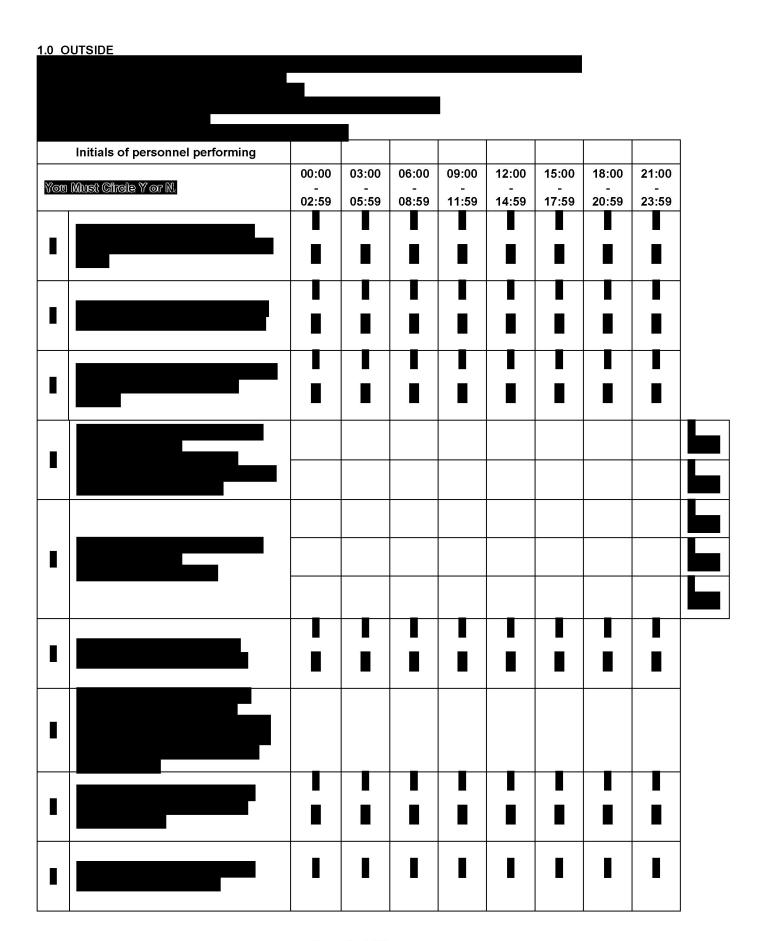
Title/Subject: <b>A</b>	Actions To Take	<b>During A Freezi</b>	ng Weather Event

Revision Date: January 6, 2022

Revision: 4.	1
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PURPOS	E		

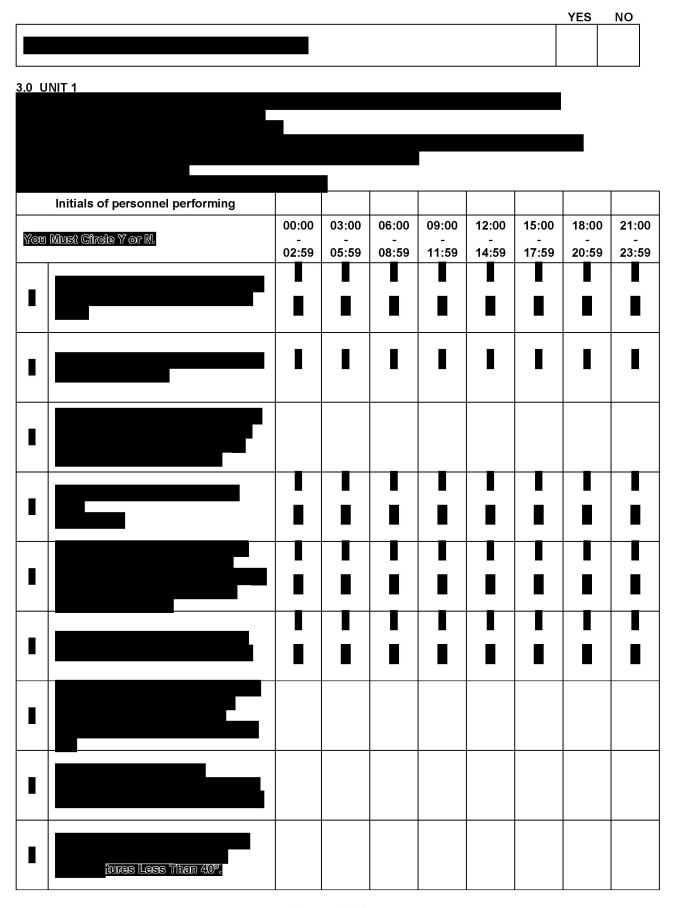
Status: Approved			
PURPOSE The purpose of this procedure is to cover	all activities		
PROCEDURE			
This procedure will be implemented  All boxes must	be answered.		
Lead Multi-Craft Technician/Designee	00:00-04:59		
Name	Signature		Date
Lead Multi-Craft Technician/Designee	05:00-16:59		
Name	Signature		Date
Lead Multi-Craft Technician/Designee	17:00-23:59		
Name	Signature		Date
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Page **2** of **22** 

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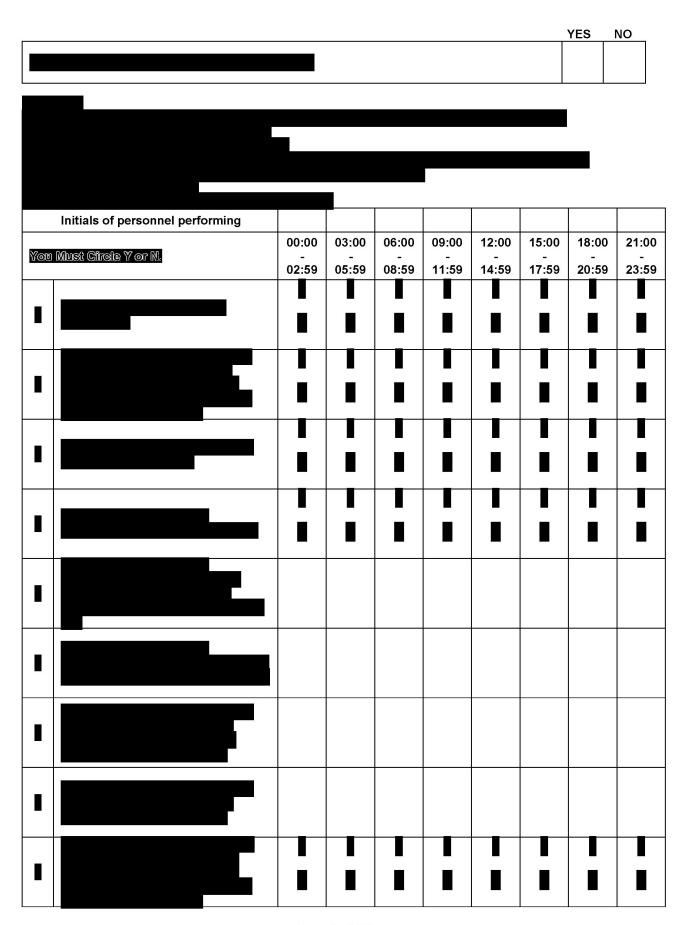


Page **5** of **22** 

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Page **9** of **22** 

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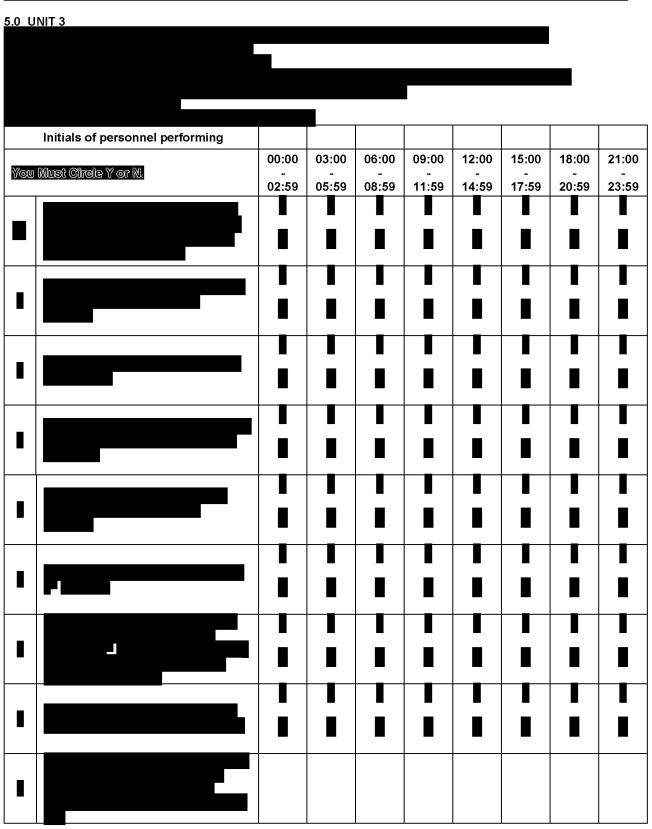
Page **10** of **22** 

Initials of personnel performing									
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	YES	S NO	<u> </u>
Unit 3 On-line or Intent to Start-Up Communicated			



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ISSUES 00:00 – 04:59	WO#
ISSUES 05:00 – 16:59	WO#
ISSUES 17:00 – 23:59	WO#

Revision No.	Date	Author	Revision(s) Made
1.0	10-6-11	J.Kessel	Created
1.1	7-10-12	J.Kessel	Added Verification Of
1.2	12-28-12	J.Kessel	Revised Numbering For Efficiency
1.3	3-21-2014	S. Werner	Revised Time and Tem
2.0	3-15-16	J.Dinn	Updated procedure to include

Page **20** of **22** 

			Added
2.1	11-23-16	J. Dinn	Added
2.2	12-19-16	J.Dinn	Added Date Fields
2.3	01-11-17	J.Dinn	Change formats to
2.4	2-15-17	J.Dinn	Added
2.5	2-16-17	J.Dinn	Removed
2.6	11-6-17	J.Dinn	Added
2.7	12-19-17	J.Dinn	Removed
2.8	01-09-18	J.Dinn	Removed Change of 2.6 Revision
2.9	1-25-18	J.Dinn	Added
3.0	10-22-18	J.Dinn	Changed
3.1	9-16-19	J.Dinn	Added H
3.2	10-31-19	J.Dinn	Removed
3.3	11-6-19	J.Dinn	Added
3.4	11-14-19	J.Dinn	Added

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3.5	12-7-20	J.Dinn	Section 2.0
3.6	9-16-2021	J.Dinn	Added
3.7	11/18/2021	J. von Minden	
3.8	11-23-21	J. Dinn	Removed
3.9	12-16-21	J.Dinn	Added
4.0	12-30-21	J.Dinn	Added
4.1	1-6-22	J.Dinn	Removed



# **Lost Pines Power Park**

### Sim Gideon

Title/Subject: Actions To Take At The Conclusion Of Freezing Weather

Revision Date: December 30, 2021

Revision: 1.4 Status: Approved

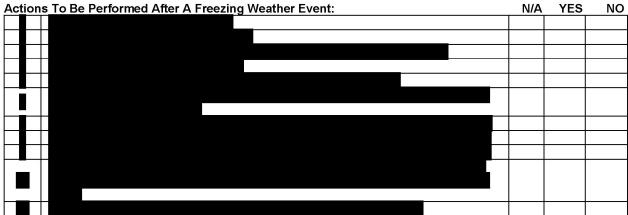
#### **PURPOSE**

The purpose of this procedure is to cover all activities that are required to be conducted

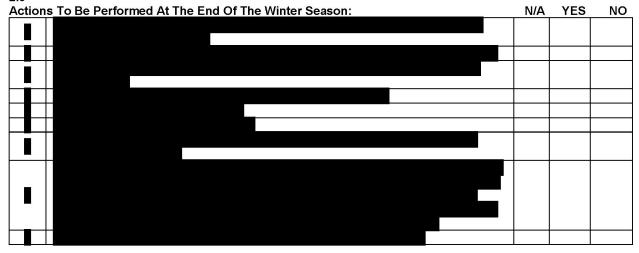
#### **PROCEDURE**

The following actions shall be performed

Operator\_\_\_\_ Date



2.0



Revision No.	Date	Author	Revision(s) Made
1.0	10-6-11	J.Kessel	Created
1.1	1-8-13	J.Kessel	
1.2	11-16-21	J.Dinn	
1.3	12-16-21	J.Dinn	
1.4	12-30-21	J.Dinn	



#### **Lost Pines Power Park**

#### Winchester

Title/Subject: Fall Preparation For Freezing Weather Season

Revision Date: November 22, 2021

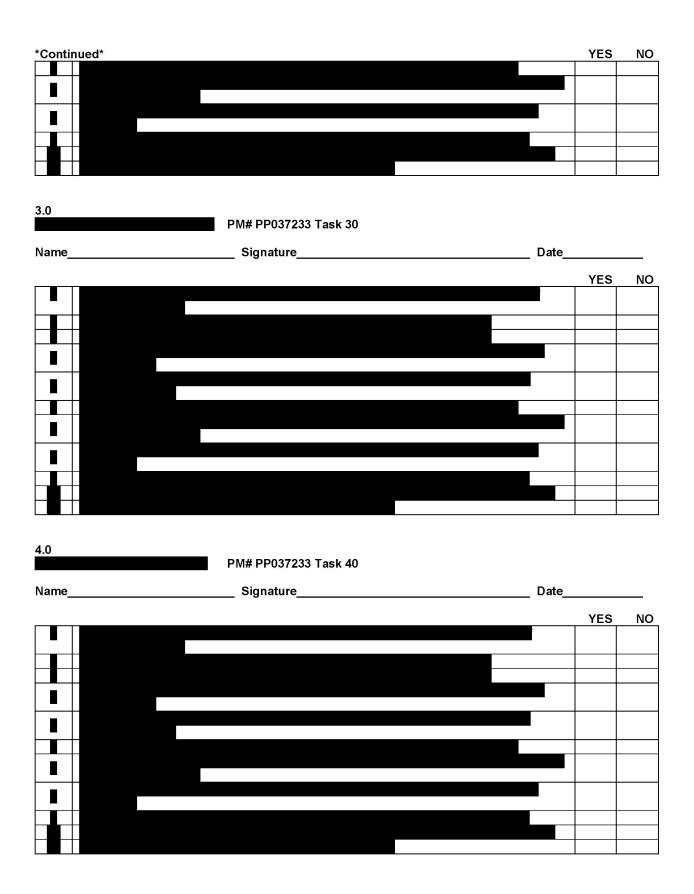
Revision: 2.4 Status: Approved

#### **PURPOSE**

The purpose of this procedure is to cover all activities that are required to be conducted in preparation of freezing weather.

#### PROCEDURE

The Following Actions Are To Be Performed By LPPP Personnel. YOU MUST PUT A CHECK MARK IN THE APPROPRIATE BOX.



Page **2** of **5** 

5.0	PM# PP037233 Task 130			
Name	Signature	Date		
			YES	NO
6.0 PM	1# PP037233 Task 150			
Name	Signature	Date		
			YES	NO
7.0	PM# PP037233 Task 45			
Name	Signature	Date		
			YES	NO
8.0 Verification of	PM#	# PP037233 Task 50		
	Signature			
			YES	NO

Page **3** of **5** 

9.0	PM# PP037233 Task 60				
	Signature		Date		
				YES	NO
10.0					
Name	Signature				
				YES	NO
11.0	PM# PP037233 Task 1	20			
Name	Signature		Date		
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12.0	PM# PP	<sup>2</sup> 059481 Task 30			
Name	Signature		Date		
13.0 Verification Of		PI	//# PP059481 Tas	k 10	
Name	Signature		Date		
				YES	NO
14.0					
Verification of		PM# PP059	9481 TASK 20		
Name	Signature		Date		

Page **4** of **5** 

15.0		PM# PP059481 Task 140		
Name	Signature	Date		
			YES	NO
16.0				
	That Were Identified And The Corrective	Actions Taken)		
(List Arry Abriormanties	ISSUES	Actions Taken)	WC	#

Revision No.	Date	Author	Revision(s) Made
1.0	10-11-11	J.Kessel	Created
2.0	10-13-16	J.Dinn	
2.1	10-24-17	J.Dinn	
2.2	11-28-18	J.Dinn	
2.3	9-17-21	J.Dinn	
2.4	11-22-21	J.Dinn	



### **Lost Pines Power Park**

#### Winchester

Title/Subject: Preparation For A Pending Freezing Weather Event

Revision Date: December 30, 2021

Revision: 2.6 Status: Approved

Pl	JRF	POSE
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The purpose of this procedure is to provide a formal checklist

This will be decided by Plant Management.

PROCEDURE
In the event of oncoming freezing weather, plant personnel shall

You s

The following is a list of those areas that require special attention.

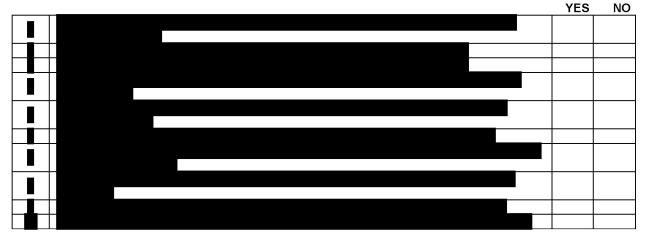
This procedure will need to be performed again if there is at least a seven (7) day span between events.

The Following Shall Be Verified: Supervisor. YOU MUST PUT A CHECK MARK IN THE APPROPRIATE BOX.

Signature\_\_\_\_\_

Date\_\_\_\_\_

## 1.0 Unit 1 Freeze Protection Panels

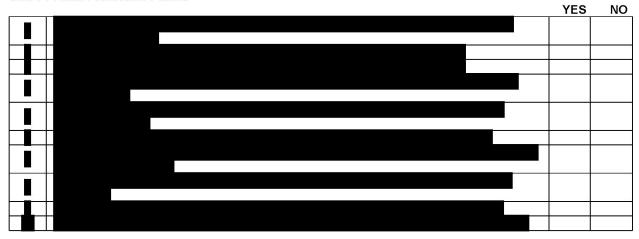


# 2.0 Unit 2 Freeze Protection Panels

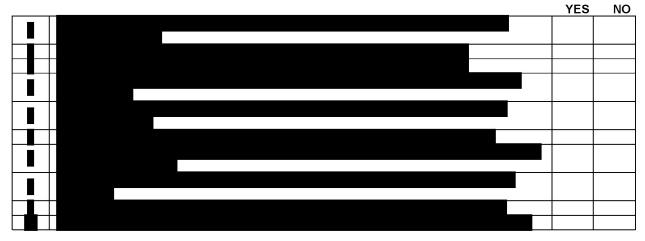




3.0 Unit 3 Freeze Protection Panels



4.0 Unit 4 Freeze Protection Panels



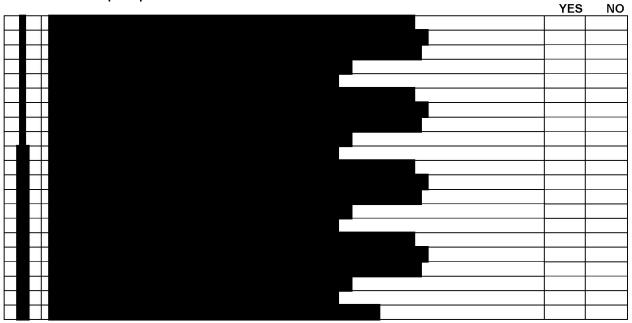
5.0 Fire Water Freeze Protection Panel

	26		YES	NO

6.0 Connect Power Cords to Heat Lamps

	YES	NO

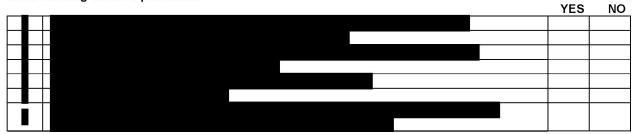
7.0 Verification of Proper Operation of Electrical Heaters/Thermostats



8.0 Verify The Heating Mode Operation Of The Following HVAC Units



9.0
The Following Shall be performed



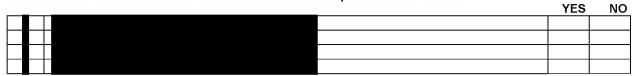
10.0 A Visual Observation Shall Be Performed Of The Following

 <u> </u>	YES	NO

11.0		
<b>Verify The Following</b>	Items To	Be Adequate

	Ordered	YES	NO

12.0 Verification of Unit Turbine Lube Oil Reservoir Recirc Pumps in the On Position



13.0 Verification of Critical Transmitter Availability

 YES	NO

14.0 Verification of Air Compressor and Dryer Operation



15.0 Freeze Protection Abnormalities Identified

(List Any Abnormalities That Were Identified During The Shift And The Corrective Actions Taken)

ISSUES	WO#

Revision No.	Date	Author	Revision(s) Made
1.0	10-11-11	J.Kessel	Created
1.1	03/01/2014	S. Werner	Minor revision
2.0	10-13-16	J.Dinn	Update
2.1	11-08-18	J.Dinn	Added
2.2	11-28-18	J.Dinn	Added Section for
2.3	11-11-19	J.Dinn	Added Section for
2.4	9-17-21	J.Dinn	Added
2.5	11-22-21	J.Dinn	Removed
2.6	12-30-21	J.Dinn	Removed

#### CONFIDENTIAL - PROTECTED INFORMATION

#### 1.0 PURPOSE

The purpose of this procedure is to prepare for and address f

. This procedure is
. Event

Response will focus on operations and preventative measures during an actual freeze event.

#### 2.0 DOCUMENTATION PROTECTION

#### **CONFIDENTIAL - PROTECTED INFORMATION**

This document contains ERCOT protected information as defined by Section 1.3.1 of the ERCOT Nodal Protocols. As such, the document and its contents are restricted from public release or access.

Protected information, in whatever form, may be disclosed to the directors, officers, employees, representatives, and agents of the party receiving the information, only on a "need to know" basis, that the party receiving the information shall make its directors, officers, employees, representatives, and agents aware of their internal obligations to protect the information, that all copies of the protected information created or maintained, in any format or form, be identified accordingly.

If protected information is to be shared with a third party vendor, confidentiality and/or nondisclosure agreement with that vendor must be first confirmed as (1) obligating the vendor receiving protected information to have procedures to ensure that protected information is securely maintained; (2) requiring that the vendor's internal distribution of protected information is reasonably restricted to appropriate individuals; and (3) requiring that the vendor make its directors, officers, employees, representatives, and agents aware of the confidentiality obligations.

#### 3.0 REFERENCES

- 3.1 PUCT 25.53 Electric Service Emergency Operations Plans
- 3.2 PUCT 25.55 Weather Emergency Preparedness
- 3.3 EOP-011-2 Emergency Preparedness and Operations
- 3.4 ERCOT Nodal Protocol Section 3.21 Submission of Emergency Operations Plans, Weatherization Plans, and Declarations of Summer and Winter Weather Preparedness
- 3.5 2012 Quanta Report on Extreme Weather Preparedness Best Practices

#### CONFIDENTIAL – PROTECTED INFORMATION

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GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100		
PROCEDURE USE: REFERENCE		LOCATION: WPP			
SUBJECT: Plant Freeze Protection Plan					

#### CONFIDENTIAL - PROTECTED INFORMATION

#### 4.0 DEFINITIONS

- 4.1 **Cold Weather Critical Component** Any component that is susceptible to freezing or icing, the occurrence of which is likely to significantly hinder the ability of a resource or transmission system to function as intended, and for a generation entity, to lead to unit trip, derate, or failure to start of a resource.
- 4.2 Weather Emergency Preparation Measures Measures that a generation entity or transmission service provider takes to support the function of a facility during a weather emergency.
- 4.3 **Weather Emergency** A situation resulting from weather conditions that produces significant risk for a TSP that firm load must be shed or a situation for which ERCOT provides advance notice to market participants involving weather-related risks to the ERCOT power region.

# **5.0 WINCHESTER POWER PARK FACILTY PROFILE AND PLANT CONFIGURATION** (EOP-011-2 R7.1)

Winchester Power Park

1260 FM 448

Winchester, Texas 78945

County: Fayette

Year built: 2010

Capacity: About 180 megawatts

Fuel: Natural gas, Turbines in simple cycle

Owners: LCRA

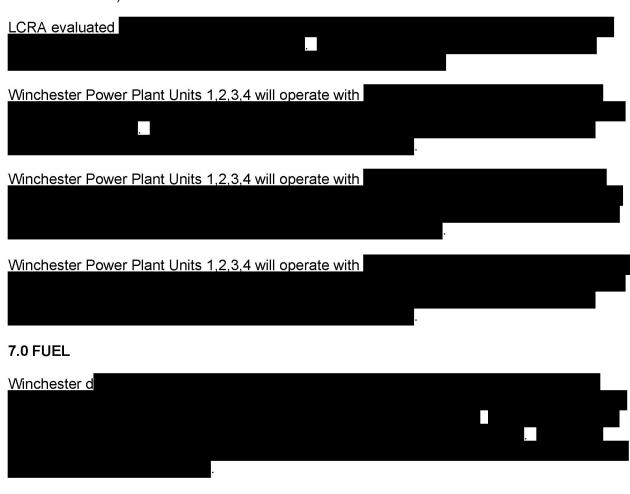
GENERATION DATE: 11/16/2021 REV 1.0 PROCEDURE: WPP-OPS-WTH-0100

PROCEDURE USE: REFERENCE LOCATION: WPP

SUBJECT: Plant Freeze Protection Plan

#### CONFIDENTIAL – PROTECTED INFORMATION

**6.0 PLANT MINIMUM AMBIENT OPERATING TEMPERATURE** (PUCT 25.55 (E) and EOP-011-2 R7.3.2)



#### **8.0 ENVIRONMENTAL CONSTRAINTS** (EOP-011-2 R7.3.1.4)



comply with applicable environmental permits and with Texas Commission on Environmental Quality (TCEQ) rules during all modes of operation. TCEQ has authority to issue enforcement discretion for exceedances of emissions and operational limits of power generating facilities that exceed air permit limits. TCEQ enforcement discretion is given to assist during extreme conditions and energy emergency situations. ERCOT provides notice of TCEQ enforcement discretion to registered entities through market notices. TCEQ will also exercise enforcement

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GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100
PROCEDURE USE: REFERENCE		LOCATI	ON: WPP
SUBJECT: Plant Freeze P	rotection Plan		

#### CONFIDENTIAL – PROTECTED INFORMATION

discretion when the Governor issues a disaster declaration and suspends state agency rules that would impede necessary actions to cope with the disaster.

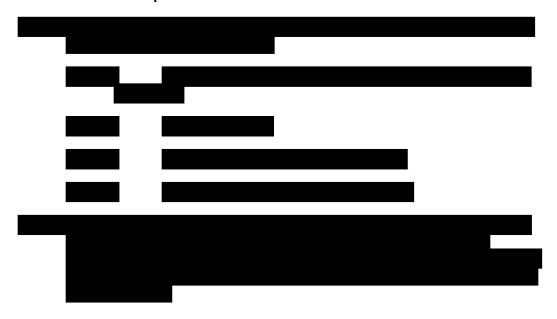
In the event of TCEQ enforcement discretion, no LCRA generation facility shall exceed environmental permits and/or rules unless approved by LCRA Generation Executive Management and any generation facility that expects to exceed its air permits during and event shall provide notice to TCEQ.

#### 9.0 PRECAUTIONS



#### 10.0 PROCEDURE

#### 10.1 Winter Weather Preparation



CONFIDENTIAL - PROTECTED INFORMATION

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GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100		
PROCEDURE USE: REFERENCE		LOCATION: WPP			
SUBJECT: Plant Freeze Pr	otection Plan				

#### CONFIDENTIAL – PROTECTED INFORMATION

PM	Job Plan	Crew	Status	Description



10.1.4 ors and Leads

The objective evidence will be put together and stored by the Compliance Coordinator.

The Compliance Coordinator will also make the attestation to LCRA Corporate Compliance that WPP has completed winter weather preparations.

#### 10.2 Event Response Alert Levels



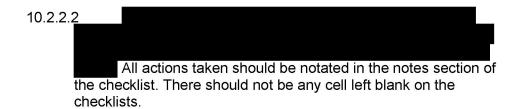
10.2.2.1 The assigned personnel will make the rounds per the weatherization checklist.

#### CONFIDENTIAL – PROTECTED INFORMATION

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GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100		
PROCEDURE USE: REFERENCE		LOCATION: WPP			
SUBJECT: Plant Freeze P	rotection Plan				

#### CONFIDENTIAL - PROTECTED INFORMATION



- 10.2.2.3 All completed checklist will be turned into the Compliance Coordinator for review and storing as Objective Evidence.
- 10.2.2.4 Issues found during plant rounds should be reported and submitted for repairs immediately. The Shift Supervisor in Charge will be responsible for designating a priority of repair.

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GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100		
PROCEDURE USE: REFERENCE		LOCATION: WPP			
SUBJECT: Plant Freeze Pi	rotection Plan				

#### CONFIDENTIAL - PROTECTED INFORMATION

10.3 Cold Weather Staffing - Above normal operating shift levels urs Forecasted Temperature is < 32 F for 12+ hrs LPPP - Extreme Weather Staffing - Alert Level 0 **Plant Employees** Days Nights NPP Days Nights LPPP - Extreme Weather Staffing - Alert Level 1 Plant Employees Ops Leads OP Days Nights VPP LPPP - Extreme Weather Staffing - Alert Level 2 Plant Employees Day LPPP - Extreme Weather Staffing - Alert Level 3 Plant Employees

GENERATION DATE: 11/16/2021 REV 1.0 PROCEDURE: WPP-OPS-WTH-0100

PROCEDURE USE: REFERENCE LOCATION: WPP

SUBJECT: Plant Freeze Protection Plan

#### CONFIDENTIAL – PROTECTED INFORMATION

#### 11.0 REGULATORY FILING OBLIGATIONS

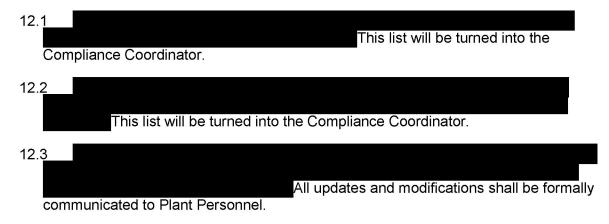
By December 1, LCRA must submit to the PUCT and ERCOT, on a form prescribed by ERCOT and developed in consultation with PUCT staff, a winter weather readiness report that describes all activities taken by LCRA to complete the requirements of PUCT 25.25 paragraph (1). This also includes a notarized attestation sworn to by LCRA's highest-ranking representative, official, or officer with binding authority over the generation entity, attesting to the completion of all activities described in PUCT 25.25 paragraph (1) and the accuracy and veracity of the information described in PUCT 25.25 subparagraph (2)(A).

A generation entity may submit a request for a good cause exception with the PUCT to specific requirements listed in PUCT 25.25 paragraph (1). The request must include a detailed explanation of the inability to comply with the specific requirements and detailed description and supporting documentation of efforts that have been made to comply with the rules. The request shall also include a plan with a schedule to comply with the specific requirement. The request shall include a notarized attestation sworn to by LCRA's highest-ranking representative, official, or officer with binding authority over LCRA attesting to the accuracy and veracity of the information.

Submitting the winter weather readiness report required by PUCT 25.25 exempts LCRA from the requirement in Section 3.21 (3) of the ERCOT Protocols, which requires generation entities to submit a Declaration of Completion of Generation Resource Winter Weather Preparations no earlier than November 1 and no later than December 1 of each year. Should LCRA not submit the winter weather readiness report required by PUCT 25.25, LCRA shall submit the declaration to ERCOT in accordance with Protocol 3.21 (3).

In accordance with ERCOT Protocol 3.21 (2), revisions to weatherization plans must be submitted to ERCOT by June 1 for any updates made updates made between November 1 and April 30, and by December 1 for any updates made between May 1 through October 31. Plans shall be submitted electronically.

#### 12.0 EVENT/SEASON CONCLUSION



GENERATION

DATE: 11/16/2021

REV
1.0

PROCEDURE: WPP-OPS-WTH-0100

PROCEDURE USE: REFERENCE

LOCATION: WPP

SUBJECT: Plant Freeze Protection Plan

#### **CONFIDENTIAL – PROTECTED INFORMATION**

12.4		E
ass add ent	ERCOT must adopt rules that specify the circumstatich this requirement applies and specify the scope and contents of the sessment. A generation entity to which this subsection applies may be subjictional inspections by ERCOT. ERCOT must refer to the commission for forcement any generation entity that violates this rule and fails to cure the inficiencies within a reasonable period of time.	ject to

12.5 LCRA shall file with the PUCT an affidavit from an owner, partner, officer, manager, or other official with responsibility for the power generation company's operations affirming that all relevant operating personnel are familiar with the contents of the emergency operations plan; and such personnel are committed to following the plan except to the extent deviations are appropriate under the circumstances during the course of an emergency.

13.0	COMMENTS/FEEDBACK
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LCRA Page 10 of 10

GENERATION	DATE: 11/16/2021	REV 1.0	PROCEDURE: WPP-OPS-WTH-0100		
PROCEDURE USE: REFERENCE		LOCATION: WPP			
SUBJECT: Plant Freeze Pr	rotection Plan				

#### CONFIDENTIAL - PROTECTED INFORMATION

#### 14.0 REVISIONS

Revision Table			
Date	New Revision #	Description of Change	Revised By
11/16/2021	1.0	CREATION	JACQUELINE DINN

#### 15.0 ANNUAL REVIEW SIGNATURE

Recoverable Signature

# x Jeff Dyer

Jeff Dyer

LPPP Maintenance Supervisor

Signed by: Jeff Dyer

Recoverable Signature

# X Jason von Minden

Jason von Minden

LPPP Operations Supervisor

Signed by: Jason von Minden

Recoverable Signature

# X James N Willey

Jim Willey

LPPP Plant Director

Signed by: James N Willey



# **Lost Pines Power Park**

## Winchester

Title/Subject: Actions To Take During A Freezing Weather Event

Revision Date: December 30, 2021
Revision: 3.6
Status: Approved

otatao., pp. otoa				
PURPOSE The purpose of this procedu	re is			
PROCEDURE During freezing weather, pla	nt personnel shall			
This procedure will be imple	mented by the Shift Supervisor wher	n t		
. All k	poxes must be answered.			
Lead Multi-Craft Technicia	n/Designee 00:00-04:59			
Name	Signature		_ Date	
Lead Multi-Craft Technicia	n/Designee 05:00-16:59			
Name	Signature		_ Date	
Lead Multi-Craft Technicia	n/Designee 17:00-23:59			
Name	Signature		_ Date	
	Date	Time		

1.0 Unit 1 Freeze Protection Panel Located Right of Tempering Air Fans

	Initials of personnel performing								
Yœu	Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20:59	21:00 - 23:59
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2.0 Unit 1 Electrical Heaters/Thermostats: Verified To Be In Operation

	Initials of personnel performing								
You	Must Circle Y or N.	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00
		02:59	05:59	08:59	11:59	14:59	17:59	20:59	23:59

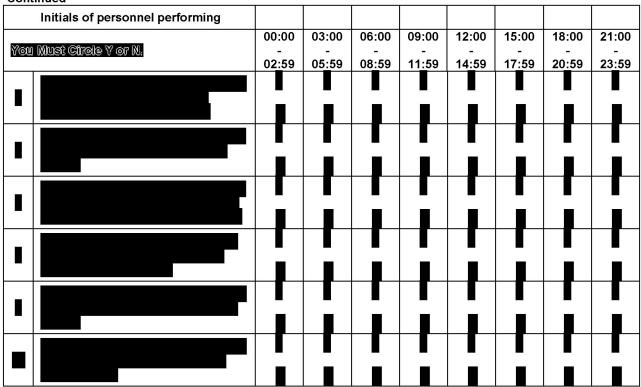
Initials	s of personnel performing								
You Must C	itale y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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3.0 Unit 1 Turbine Lube Oil Reservoir Tank Recirc Pump

Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
	02.59	03.59	08.59	11.59	14.59	17.59	20.59	23.39

4.0 Unit 2 Freeze Protection Panel Located Left of Tempering Air Fans

	Initials of personnel performing								
You	Must Circle Y or N.	00:00 - 02 <u>:</u> 59	03:00 - 05 <u>:</u> 59	06:00 - 08 <u>:</u> 59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20 <u>:</u> 59	21:00 - 23 <u>:</u> 59
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5.0 Unit 2 Electrical Heaters/Thermostats: Verified To Be In Operation

	Initials of personnel performing								
You	ı Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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6.0 Unit 2 Turbine Lube Oil Reservoir Tank Recirc Pump

Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59

7.0
Unit 3 Freeze Protection Panel
Located Right of Tempering Air Fans

	Initials of personnel performing								
/ou	ı Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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8.0 Unit 3 Electrical Heaters/Thermostats: Verified To Be In Operation

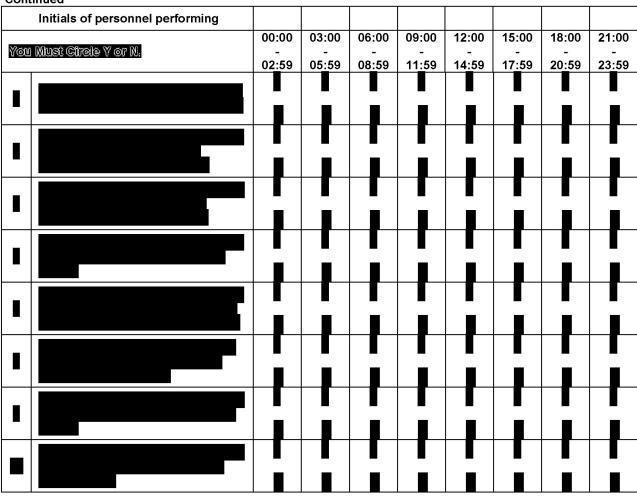
Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
								I

9.0 Unit 3 Turbine Lube Oil Reservoir Tank Recirc Pump

Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59

10.0 Unit 4 Freeze Protection Panel Located Left of Tempering Air Fans

	Initials of personnel performing								
Yœu	Must Circle Y or N.	00:00 - 02 <u>:</u> 59	03:00 - 05 <u>:</u> 59	06:00 - 08:59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20 <u>:</u> 59	21:00 - 23 <u>:</u> 59



11.0 Unit 4 Electrical Heaters/Thermostats: Verified To Be In Operation

	Initials of personnel performing								
You	Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59

12.0 Unit 4 Turbine Lube Oil Reservoir Tank Recirc Pump

Initials of personnel performing								
You Must Circle Y or N.	00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59

13.0 Fire Water Freeze Protection Panel

	Initials of personnel performing								
You Must Circle Y or N.		00:00 - 02 <u>:</u> 59	03:00 - 05 <u>:</u> 59	06:00 - 08 <u>:</u> 59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20 <u>:</u> 59	21:00 - 23 <u>:</u> 59
I									

14.0 Fire Water House Heaters/Thermostats: Verified To Be In Operation

Initials of personnel perfo	orming							
You Must Circle Y or N.	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00
<u> </u>	02:59	05:59	08:59	11:59	14:59	17:59	20:59	23:59

15.0 BOP Freeze Protection

		1						1	
	Initials of personnel performing								
<b>V</b> 2	100	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00
A.O.	Must Circle Y or N.	02:59	- 05:59	- 08:59	- 11:59	- 14:59	- 17:59	20:59	- 23:59
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0011	Initials of personnel performing								
You	I Must Circle Y or N.	00:00	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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16.0 Heat Lamps: Verified To Be In Operation Scaffold Sheeting: Verified To Be In Place and Integrity Checked

	Initials of personnel performing								
You Must Circle Y or N.		00:00 - 02:59	03:00 - 05 <u>:</u> 59	06:00 - 08:59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20 <u>:</u> 59	21:00 - 23:59
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17.0 Monitoring

	Initials of personnel performing								
You Must Circle Y or N.		00:00 - 02:59	03:00 - 05:59	06:00 - 08:59	09:00 - 11:59	12:00 - 14:59	15:00 - 17:59	18:00 - 20:59	21:00 - 23:59
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	Initials of personnel performing								
Yœu	Must Circle Y or N.	00:00 - 02 <u>:</u> 59	03:00 - 05 <u>:</u> 59	06:00 - 08 <u>:</u> 59	09:00 - 11 <u>:</u> 59	12:00 - 14 <u>:</u> 59	15:00 - 17 <u>:</u> 59	18:00 - 20 <u>:</u> 59	21:00 - 23 <u>:</u> 59
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18.0
Freeze Protection Abnormalities Identified
(List Any Abnormalities That Were Identified During The Shift And The Corrective Actions Taken)

ISSUES 00:00 - 04:59	WO#
ISSUES 05:00 – 16:59	WO #
100020 00100 10100	
ISSUES 17:00 – 23:59	WO #

Revision No.	Date	Author	Revision(s) Made
1.0	10-11-11	J.Kessel	Created
1.1	03-21-2014	S. Werner	Times and Temp Revised
2.0	10-13-16	J.Dinn	Updated procedure to include

2.1	01-11-17	J.Dinn	Change formats to clearly cover one 24hr period.
2.2	01-25-18	J.Dinn	Added Verification of
3.0	11-08-18	J.Dinn	Changed Format for Rounds to Question and Answer
3.1	11-28-18	J.Dinn	Added Section for
3.2	1-12-21	B. Clappison	Added to Section 15 –
3.3	2-12-21	J.Dinn	Added
3.4	9-17-21	J.Dinn	Added
3.5	11-22-21	J.Dinn	Removed
3.6	12-30-21	J.Dinn	Added S



#### **Lost Pines Power Park**

## Winchester

Title/Subject: Actions To Take At The Conclusion Of Freezing Weather

Revision Date: December 30, 2018

Revision: 1.3 Status: Approved

#### **PURPOSE**

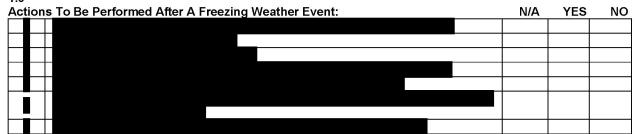
The purpose of this procedure is to

#### **PROCEDURE**

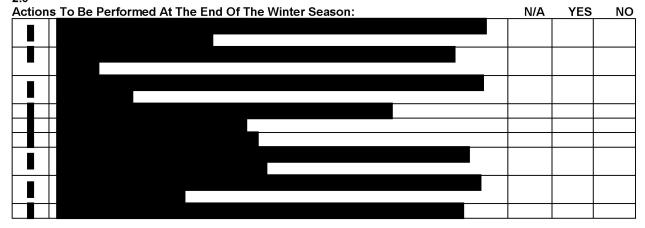
The following actions shall be performed

Operator\_\_\_\_\_ Date\_\_\_\_

10



2.0



Revision No.	Date	Author	Revision(s) Made
1.0	10-11-11	J.Kessel	Created
1.1	1-8-13	J.Kessel	Revised Section (1.0) item
1.2	11-28-18	J.Dinn	Added

1.3	12-30-21	J.Dinn		
			ı	

## **Lost Pines Power Park**

## **Severe Weather Plan**

- 1. Emergency: Call 8911 or (512) 482-6322 (LCRA Dispatch)
- 2. Notify Shift Team Lead and/or Site Management

3. Sim Gideon/ Lost Pines 1 Winchester Power Park 256 Power Plant Road Bastrop, Texas 78602 Winchester, Texas 78945 (512) 498-1937 (512) 498-1937

#### **Discovery**

The Operations Shift Team Lead will monitor inclement weather

Employees shall report all emergency situations resulting from severe weather watches or warnings

as follows:

- 1. Tell the Shift Lead who you are and where you are
- 2. Explain the type and location of weather emergency
- 3. Explain what the Shift Lead should do immediately
- 4. Tell the Shift Lead what you plan to do
- 5. Move to a safe location

#### **Initial Response**

- 1. Ensure safety of all personnel
- 2. Notify the Shift Lead
- 3. Implement the Incident Command System

	Sustained Actions	
lant Management shall:	Follow-Up Actions	
	Plant Management shall:	



# Lost Pines Power Park All Units

Title/Subject: **Hot Weather Preparation**Revision Date: March 23, 2016
Revision: 2.0

Revision: 2.0 Status: Approved

Date
at
Date
Date





*Continu	ed*		
Name		Signature	_ Date
5.0 Equipme	ent		
Name		Signature	_ Date
6.0 Operatio □	ns		
			-
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Revision No.	Date	Author	Revision(s) Made
1.0	4-24-13	J.Kessel	Created
2.0	3-23-16	J.Dinn	Changed River Pump Verification to Well Verification Section 3.0 Removed "Turn On Cooling Air" to U3 Flame Scanners Section 4.0 Added PMs to Sections 4.0 and 6.0 Added LP1 Emergency Diesel Generator to Section 6.0 Added Signature Lines to all Sections



### **Hydro Facilities**

Title/Subject: Winter Weatherization Procedure

Revision: 1.0 Status: Active

#### 1.0 PURPOSE

2.0 DOCUMENTATION PROTECTION		
2.0 DOCUMENTATION PROTECTION		
		F

#### 3.0 REFERENCES

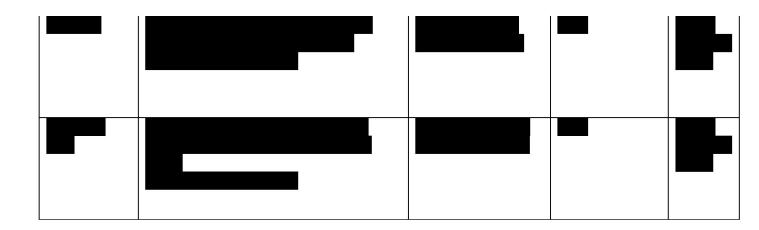
- 1. PUCT 25.53 Electric Service Emergency Operations Plans
- 2. PUCT 25.55 Weather Emergency Preparedness
- 3. EOP-011-2 Emergency Preparedness and Operations
- 4. ERCOT Nodal Protocol Section 3.21 Submission of Emergency Operations Plans, Weatherization Plans, and Declarations of Summer and Winter Weather Preparedness
- 5. 2012 Quanta Report on Extreme Weather Preparedness Best Practices

#### 4.0 DEFINITIONS

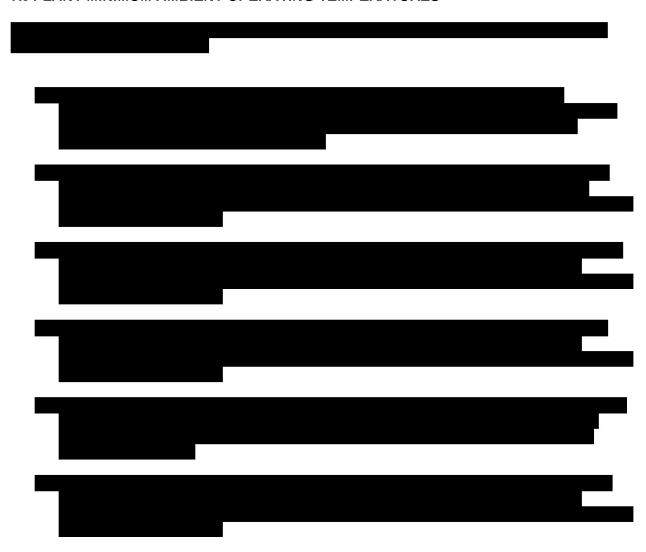
5.0 SCOPE			

#### 6.0 HYDRO FACILTIES PROFILES AND PLANT CONFIGURATIONS

Facility	Location	Generation Resources	Owner/Operator	Fuel Type

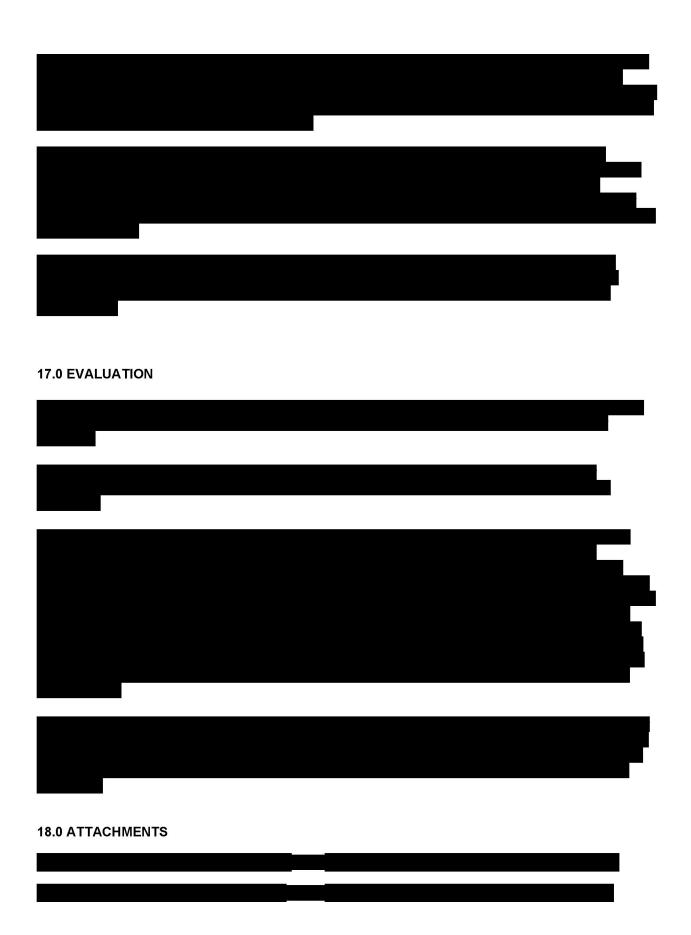


#### 7.0 PLANT MINIMUM AMBIENT OPERATING TEMPERATURES



8.0 FUEL
9.0 ENVIRONMENTAL CONSTRAINTS
10.0 REVIEW AND PREPARATION
11.0 ALERT LEVELS

12.0 PROCEDURE – ALERT LEVEL NOTIFICATION
13.0 PROCEDURE – DURING EVENT
14.0 COMMUNICATION
15.0 TRAINING
16.0 REGULATORY FILING OBLIGATIONS





Revision No.	Date	Author	Revision(s) Made
1.0	9/23/2021	D. Petrosky	Created

## **Hydro Plant Summer Weatherization Checklist**

Check off each item as it is completed. Explain any item(s) left blank at the bottom of this form. Sign and date when complete and return to Hydro Power Plant Compliance Coordinator ☐ Complete the Summer Weatherization Work Orders for the Hydro Facilities. ☐ Review previous weather events. ☐ Review any pertinent weather process documents, e.g. Plant Black Start Procedures, Facility Emergency Operations Plan, weekly/monthly plant PMs, etc. ☐ Ensure plant personnel are annually trained in summer/extreme heat weather preparation. Hydro personnel will participate in weather related drills with our Qualified Scheduling Entity (QSE) and ERCOT, as scheduled. ☐ Verify operation of rooftop ventilation fans. ☐ Verify operation of ventilation in VTC, Voltage Regulator, and PLC Cabinets, if equipped ☐ Verify operation of Air Conditioning Systems. ☐ Ensure hydro facilities phone systems, base radios, vehicles equipped with radios, and any other emergency communication systems are checked for proper operation. ☐ Ensure each facility has an adequate stock of non-perishable food and water; cots are available for temporary lodging; and proper PPE is available. ☐ Ensure each facility has verified the proper operation of any temporary portable cooling equipment. Stage equipment into areas of need and place into proper operation where needed. ☐ Review critical facility equipment temperature design for any significant equipment changes and work with engineering to update temperature design data. Where applicable, adjust the governor system pressures as needed. ☐ Ensure all facility backup generators are checked weekly for proper operations and fuel levels. ☐ Ensure backup fuel supplies are checked weekly and refilled as necessary. ☐ Review and if necessary, update the plant personnel contact list. Notify HOCC of any changes made to the list. ☐ When conditions warrant, alert personnel of the possible need for extra coverage of the facilities. ☐ List any items that are scheduled to be completed after the PM due date along with their expected completion date on the following page. Plant: Choose an item. **Sign:** Click here to enter text. Date: Click here to enter text.

Work Order Number: Click here to enter text.

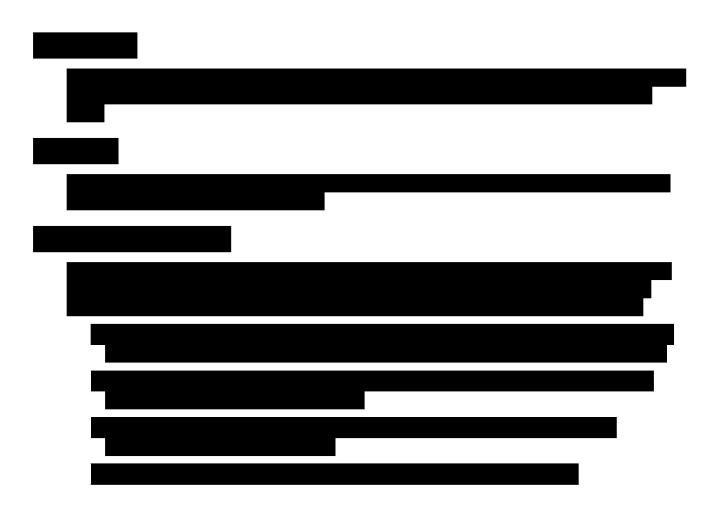
List any items left unchecked below along with their expected completion date. List any plant specific preparation actions done that are not included on the check list (optional).

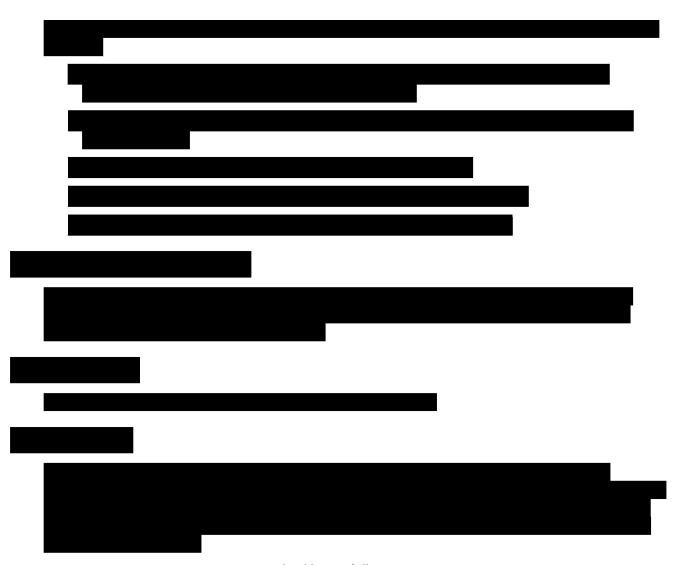
Details	Expected Completion Date
	'

**Document Type:** Procedure **Document Owner:** Director **Effective Date:** 11/28/2021

Review Period: 1 year Location: Buchanan Subject: Winter

#### CONFIDENTIAL – PROTECTED INFORMATION





- Checklist on following page -



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Completed By:	Date: Time:	_



#### **Buchanan Dam**

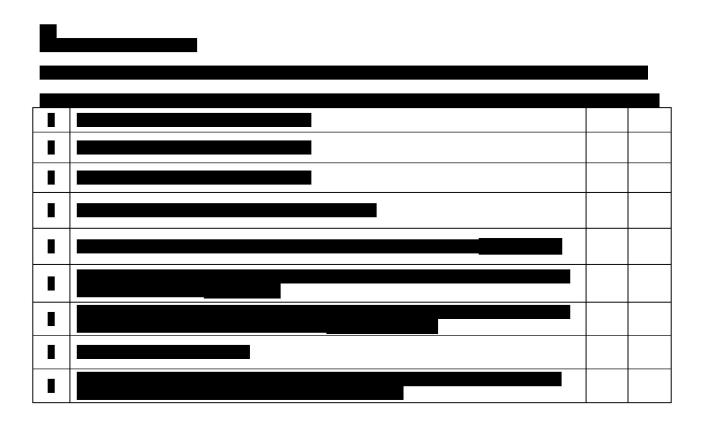
Title/Subject: Winter Weather Preparations Checklist

Revision: 1.0 Status: Active

#### CONFIDENTIAL – PROTECTED INFORMATION

This document contains ERCOT protected information as defined by Section 1.3.1 of the ERCOT Nodal Protocols. As such, the document and its contents are restricted from public release or access

The Following Actions Are To Be Performed By Plant Personnel. YOU MUST PUT A CHECK MARK IN THE APPROPRIATE BOX.





Buchanan Dam – Winter Weatherization Preparations Checklist Page **2** of **3** 



Revision No.	Date	Author	Revision(s) Made
1.0	9/23/2021	D. Petrosky	Created

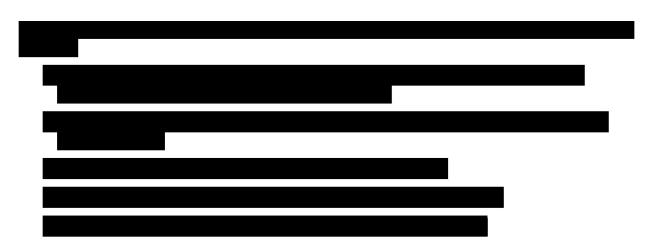
**Document Type:** Procedure **Document Owner:** Director **Effective Date:** 11/28/2021

Review Period: 1 year

**Location:** Inks **Subject:** Winter

#### CONFIDENTIAL – PROTECTED INFORMATION

⊥.	Purpose	
2.	. Scope	
3.	cautions/Warnings	



4. Equipment and Supplies



5. References

6. Procedure



- Checklist on following page -

### ELECTRICAL

### PLANT



GENERATING UNITS
GENERAL
MOISTURE SEPARATORS – Drain and Inspect

Completed By:	Da	te:	Time:



#### **Inks Dam**

Title/Subject: Winter Weather Preparations Checklist

Revision: 1.0 Status: Active

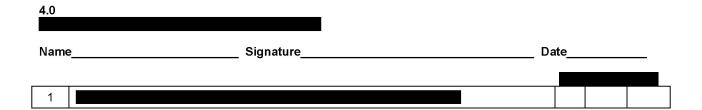
#### CONFIDENTIAL - PROTECTED INFORMATION

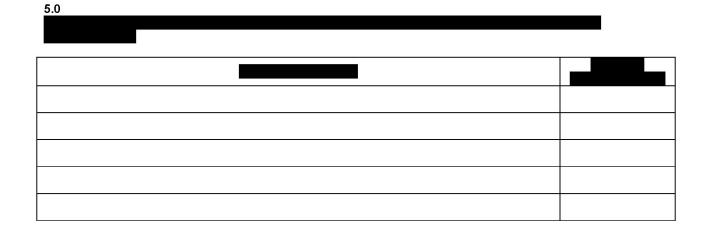
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Name	<u> </u>	Signature	Date		
QTY	DESCRIPTION			YES	NO
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Inks Dam – Winter Weatherization Preparations Checklist Page  ${\bf 1}$  of  ${\bf 2}$ 







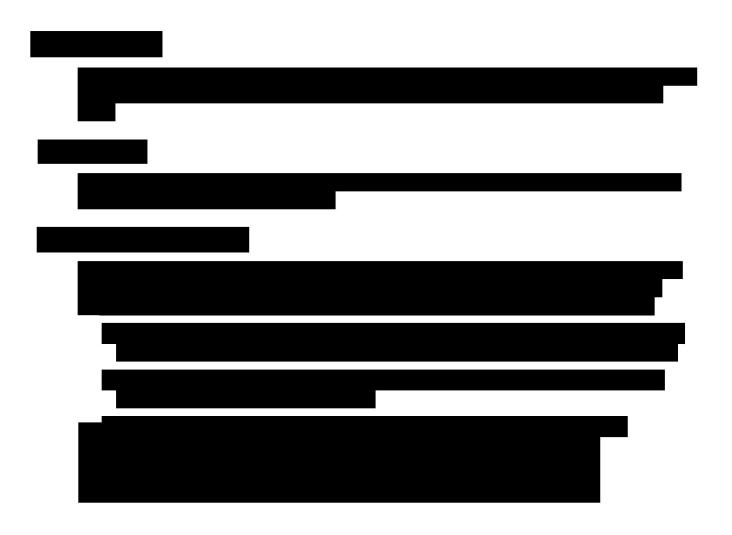


Revision No.	Date	Author	Revision(s) Made
1.0	9/23/2021	D. Petrosky	Created

**Document Type:** Procedure **Document Owner:** Director **Effective Date:** 11/28/2021

Review Period: 1 year Location: Mansfield Subject: Winter

#### CONFIDENTIAL – PROTECTED INFORMATION





- Checklist on following page -

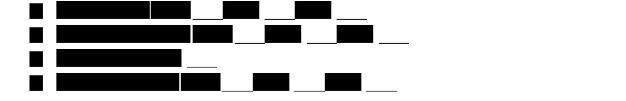
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### **GENERAL**

#### MOISTURE SEPARATORS – Drain and Inspect





#### **Mansfield Dam**

Title/Subject: Winter Weather Preparations Checklist

Revision: 1.0 Status: Active

#### CONFIDENTIAL - PROTECTED INFORMATION

1.0 Plant	t Preparations			
Name	ne Signature	Date		
			YES	NO
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4				
5				
6				
2.0 Emerç	ergency Supplies			
Name <sub>.</sub>	ne Signature	Date		
QTY	DESCRIPTION		YES	NO
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3.0 Back-Up Emergency Generator

4.0 Verification Of Insulation Integrity and Heat Trace

5.0
List any items that are scheduled to be completed after the PM due date along with their expected completion date

Items not Completed	Expected Completion Date

 $\label{eq:mansfield Dam - Winter Weatherization Preparations Checklist \\ \textit{Page 2} \ \text{of 3}$ 

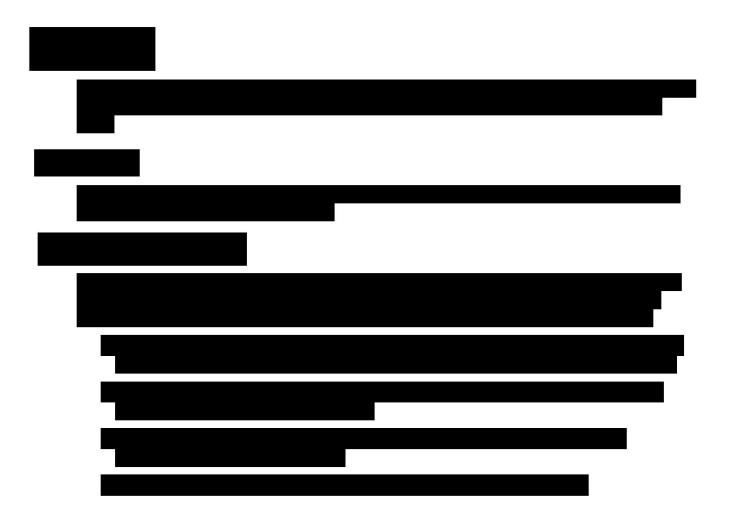
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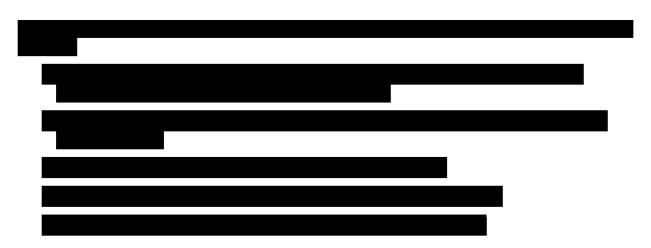
Revision No.	Date	Author	Revision(s) Made
1.0	9/23/2021	D. Petrosky	Created

**Document Type:** Procedure **Document Owner:** Director **Effective Date:** 11/28/2021

Review Period: 1 year Location: Starcke Subject: Winter

#### CONFIDENTIAL – PROTECTED INFORMATION





4. Equipment and Supplies



5. References

6. Procedure



- Checklist on following page -

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### PLANT



GENERATING UNITS			
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GENERAL 			
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MOISTURE SEPARATORS – Drain and Inspect			
Neighbor Diam and Inspect			
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Completed By:	Date:	Time:	



#### Starcke Dam

Title/Subject: Winter Weather Preparations Checklist

Revision: 1.0 Status: Active

#### CONFIDENTIAL – PROTECTED INFORMATION

1.0				
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