

Procedure:

EOP-4

Emergency Operating Procedure – Steam Turbine Generator Trip

TABLE OF CONTENTS

SEC1	TION TITLE	PAGE
1.0	Introduction	4
2.0	Symptoms/Indication	4
3.0	Possible Causes	
4.0	Immediate Actions	5
5.0	Supplementary Actions	6



Procedure:

Emergency Operating Procedure – Steam Turbine Generator Trip

EOP-4

Symptoms/Inc	dication		
Possible Caus	ses		
		<u> </u>	



Procedure:

Emergency Operating Procedure – Steam Turbine Generator Trip

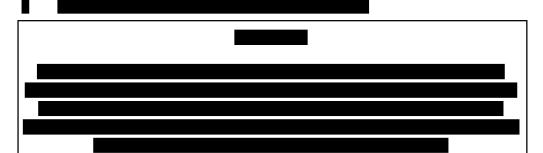
EOP-4

4.0 Immediate Actions















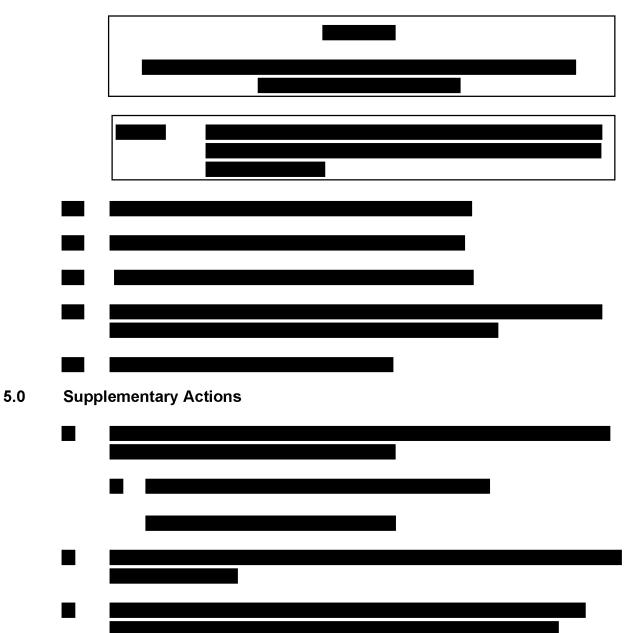


Procedure:

Emergency Operating Procedure – Steam Turbine Generator Trip

EOP-4

4.0 Immediate Actions, Continued





Procedure:

Emergency Operating Procedure – Steam Turbine Generator Trip

EOP-4

5.0 Supplementary Actions, Continued





Emergency Operating Procedure Major Feedwater Leak EOP-5

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By
2	06-16-2014	PIC Group Inc.	D. Horwath	Casel Brounks
3	04-29-2021	NRG Energy	H. Moreno	M. Goller

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station, 1



Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

Procedure Revision Summary

1.	Document and Revision Number:
	Procedure EOP-5
2.	Document Title:
	Major Feedwater Leak
3.	Effective Date:
	06-16-2014
4.	Document Change:
Rev 0	Initial draft for procedure
Rev 1	Updated Procedure
Rev 2	Reformat Procedure
Rev 3	Minor Format Changes
5.	Training Requirements:
	Required reading for all affected personnel.
	The precautions to be observed by operating staff personnel during their work within the plant.

Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

TABLE OF CONTENTS

<u>SECTI</u>	ION TITLE	PAGE
1.0	Introduction	4
2.0	Symptoms/Indication	4
3.0	Possible Causes	4
4.0	Immediate Actions	5
5.0	Supplementary Actions	6



Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

Inti	roduction		
Sy	mptoms/Indication		
Do	ssible Causes		
70	ssinie Causes		



Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

4.0 Immediate Actions





Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

4.0 Immediate Actions, Continued









5.0 Supplementary Actions









Procedure:

Emergency Operating Procedure – Major Feedwater Leak

EOP-5

5.0 Supplementary Actions, Continued





Emergency Operating Procedure Major Steam Leak EOP-6

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By
2	06-16-2014	PIC Group Inc.	D. Horwath	Carl Brouke
3	04-29-2021	NRG Energy	H. Moreno	M. Goller

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station,



Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

Procedure Revision Summary

1.	Document and Revision Number:
	Procedure EOP-6
2.	Document Title:
	Major Steam Leak
3.	Effective Date:
	06-16-2014
4.	Document Change:
Rev 0	Initial draft for procedure
Rev 1	Updated Procedure
Rev 2	Reformat Procedure
Rev 3	Minor Format Changes. Replaced CP-201 with EOP-2. Added to immediate actions
5.	Training Requirements:
	Required reading for all affected personnel.
	The precautions to be observed by operating staff personnel during their work within the plant.



Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

TABLE OF CONTENTS

SEC ¹	TION TITLE	PAGE
1.0	Introduction	4
2.0	Symptoms/Indication	4
3.0	Possible Causes	4
4.0	Immediate Actions	5
5.0	Supplementary Actions	5



Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

1.0	Introduction	
2.0	Symptoms/Indication	
3.0	Possible Causes	



Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

4.0 **Immediate Actions** 5.0 **Supplementary Actions**



Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

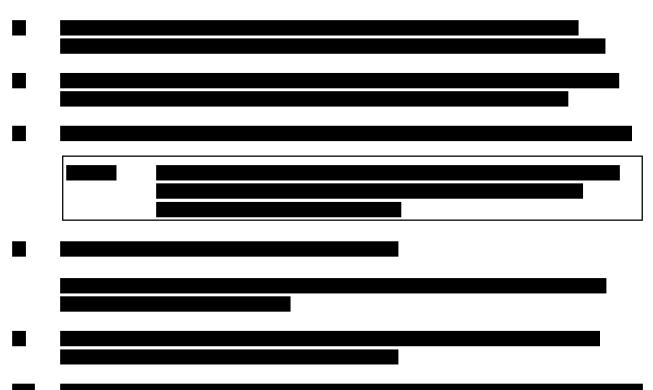


Procedure:

Emergency Operating Procedure – Major Steam Leak

EOP-6

5.0 Supplementary Actions, Continued





Emergency Operating Procedure Loss of Instrument Air EOP-7

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By
2	06-16-2014	PIC Group Inc.	D. Horwath	Carl Brouke
3	04-29-2021	NRG Energy	H. Moreno	M. Goller

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station,



Procedure:

EOP-7

Emergency Operating Procedure – Loss of Instrument Air

Procedure Revision Summary

1.	Document and Revision Number:
· ·	Procedure EOP-7
2.	Document Title:
	Loss of Instrument Air
3.	Effective Date:
	06-16-2014
4.	Document Change:
Rev 0	Initial draft for procedure
Rev 1	Updated Procedure
Rev 2	Reformat Procedure
Rev 3	Minor Format Changes. Updated Immediate Actions note
5.	Training Requirements:
	Required reading for all affected personnel.
	The precautions to be observed by operating staff personnel during their work within the plant.



Procedure:

Emergency Operating Procedure – Loss of Instrument Air

EOP-7

TABLE OF CONTENTS

<u>SECT</u>	PAGE	
1.0	Introduction	4
2.0	Symptoms/Indication	4
3.0	Possible Causes	4
4.0	Immediate Actions	4
5.0	Supplementary Actions	5



Procedure:

Emergency Operating Procedure – Loss of Instrument Air

EOP-7

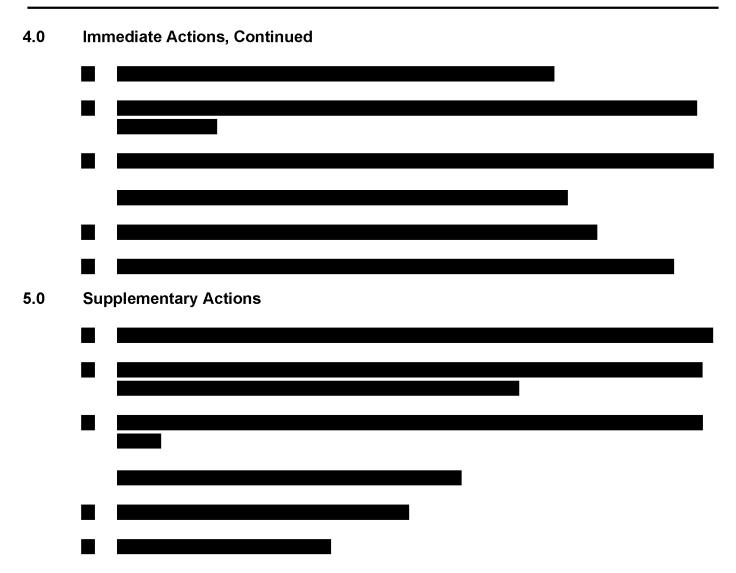
Symptoms/Indication
Possible Causes
Immediate Actions



Procedure:

Emergency Operating Procedure – Loss of Instrument Air

EOP-7





Emergency Operating Procedure Loss of Auxiliary AC Power EOP-8

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By
2	06-16-2014	PIC Group Inc.	D. Horwath	Carl Brouke
3	04-29-2021	NRG Energy	H. Moreno	M. Goller

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station,



Procedure:

EOP-8

Emergency Operating Procedure – Loss of Auxiliary AC Power

Procedure Revision Summary

1.	Document and Revision Number:
	Procedure EOP-8
2.	Document Title:
	Loss of Auxiliary AC Power
3.	Effective Date:
	06-16-2014
4.	Document Change:
Rev 0	Initial draft for procedure
Rev 1	Updated Procedure
Rev 2	Reformat Procedure
Rev 3	Minor Format Changes. Replace XCEL w/Xcel
5.	Training Requirements:
	Required reading for all affected personnel.
	The precautions to be observed by operating staff personnel during their work within the plant.

Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

TABLE OF CONTENTS

<u>SECT</u>	SECTION TITLE		
1.0	Introduction	4	
2.0	Symptoms/Indication	4	
3.0	Possible Causes	4	
4.0	Immediate Actions	4	
5.0	Supplementary Actions	7	



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

 	ntroduction
Ş	Symptoms/Indication
ı	Possible Causes
	mmediate Actions
•	
_	



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

4.0 Immediate Actions, Continued



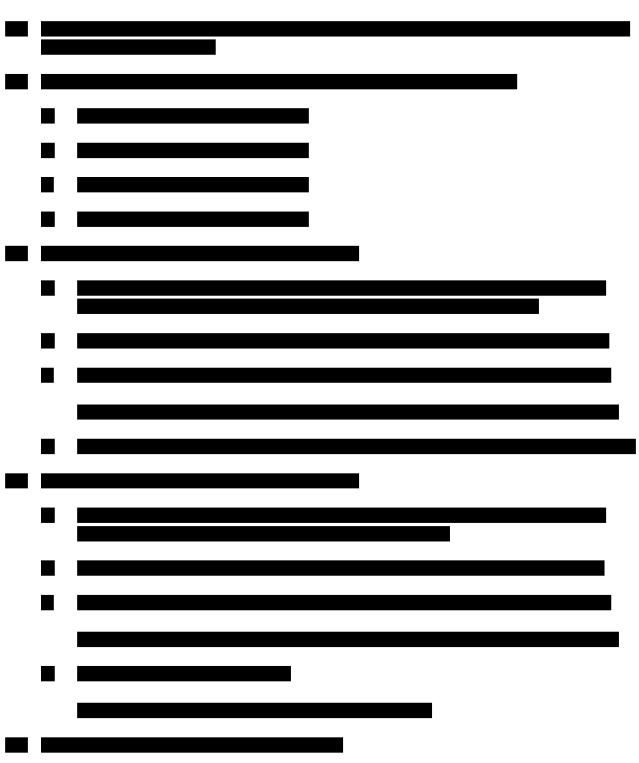


Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

4.0 Immediate Actions, Continued





Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

4.0 **Immediate Actions, Continued Supplementary Actions** 5.0



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

5.0 Supplementary Actions, Continued









. ____

Rev 2 EOP-8 Page 8 of 12



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

Load Description	Load Rating (kW, kVA, hp)	Load Demand (kW)	Comments			
	<u></u>					



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

Load Description	Load Rating (kW, kVA, hp)	Load Demand (kW)	Comments		



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

Load Description	Load Rating (kW, kVA, hp)	Load Demand (kW)	Comments		



Procedure:

Emergency Operating Procedure – Loss of Auxiliary AC Power

EOP-8

Load Description	Load Rating (kW, kVA, hp)	Load Demand (kW)	Comments		
		•			
		•			



Emergency Operating Procedure Cold Weather Procedure EOP-9

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By	
0	11-17-14	PIC Group		Carl Brouke	
1	10-01-2020	NRG Energy	H. Moreno	M. Goller	
2	04-21-2021	NRG Energy	H. Moreno	M. Goller	
3	09-21-2021	NRG Energy	H. Moreno	M. Goller M. Goller	
4	08-23-2022	NRG Energy	H. Moreno		
5	12-12-2022	NRG Energy	H. Moreno	M. Goller	
5	02-01-2023	NRG Energy	H. Moreno	M. Goller	

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station,

Procedure:

EOP-9

Emergency Operating Procedure – Cold Weather Procedure

Procedure Revision Summary

1.	Document and Revision Number:		
	Procedure EOP-9		
2.	Document Title:		
	Cold Weather Procedure		
3.	Effective Date:		
	12-16-2014		
4.	Document Change:		
Rev 0	Initial draft for procedure		
Rev 1	Review for reissue		
Rev 2	Minor Format Changes		
Rev 3	Replaced JSTA with Job Briefing. Removed items no longer applicable		
Rev 4	Added "Cabinet enclosure checklist" requirement to Exhibit EOP-9-1		
Rev 5	Revised to meet new standards. Separated Winter Readiness activities from EOP. Added Freeze Levels		
Rev 6	Added critical instrumentation to the protection and critical cabinet checklists		
5.	Training Requirements: Annual training/refresher for all affected personnel.		

Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

TABLE OF CONTENTS

<u>SECT</u>	<u>ION</u>	TITLE	<u>PAGE</u>
1.0	Safe	ty Considerations	4
2.0	Environmental Considerations		4
3.0	Requirements and Recommendations		5
4.0	Entry Conditions		
5.0	5.0 Extreme Cold Weather Actions		6
	5.1	Freeze Level One	6
	5.2	Freeze Level Two	6
	5.3	Freeze Level Three	7
6.0 Subsequent Operator Actions			8
EXH	IBIT E	OP-9-1	10
EXH	IBIT E	OP-9-2	13
EXH	XHIBIT EOP-9-3		
EXH	IBIT E	OP-9-4	22
EXH	IBIT E	OP-9-4	24



1. Safety Considerations

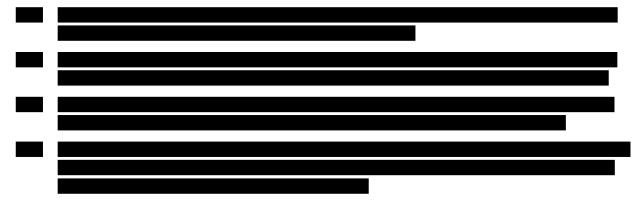
Mustang Station Operations Manual

Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

2. Environmental Considerations



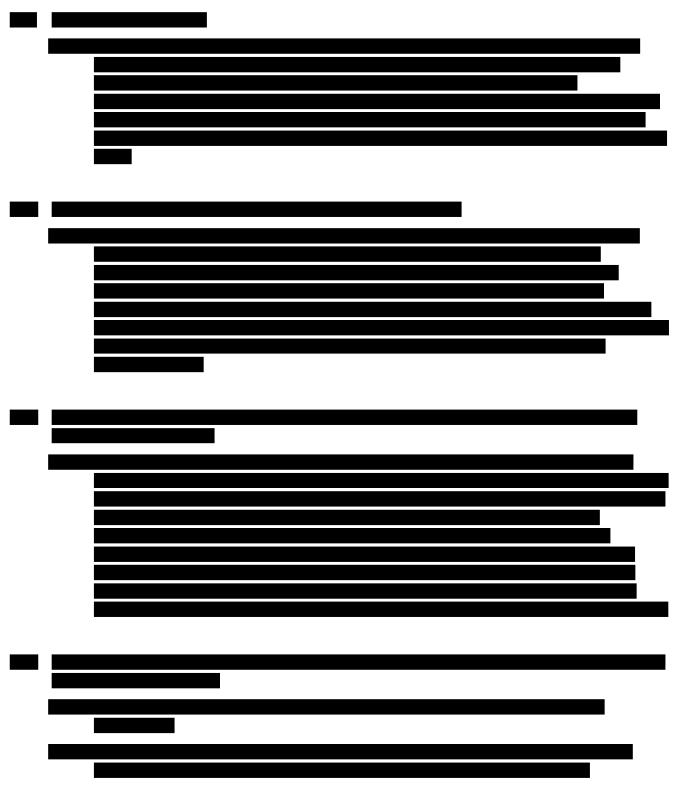


Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

3. Requirements and Recommendations





Procedure:

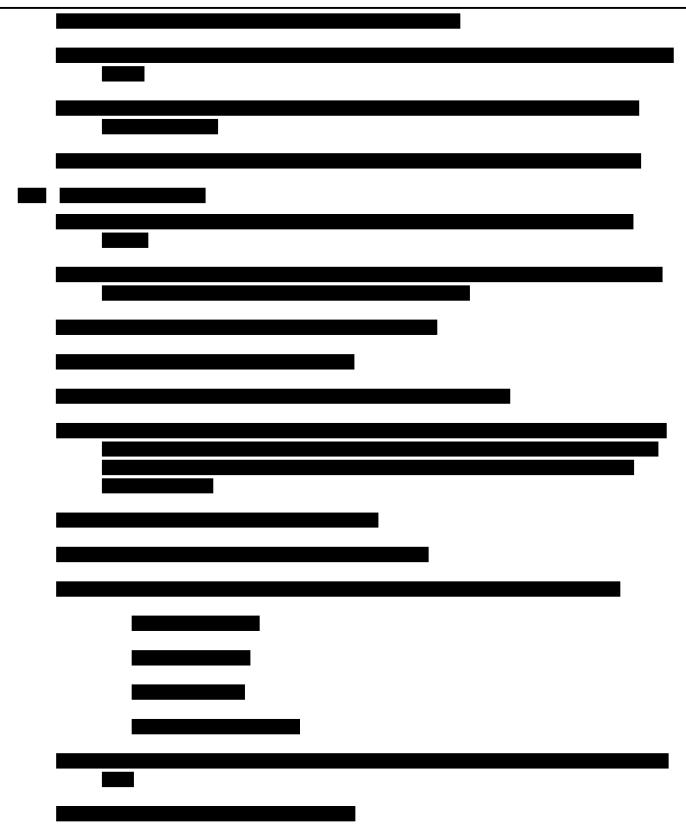
Emergency Operating Procedure – Cold Weather Procedure

4.	Entry Conditions	
5.	Extreme Cold Weather Actions	



Procedure:

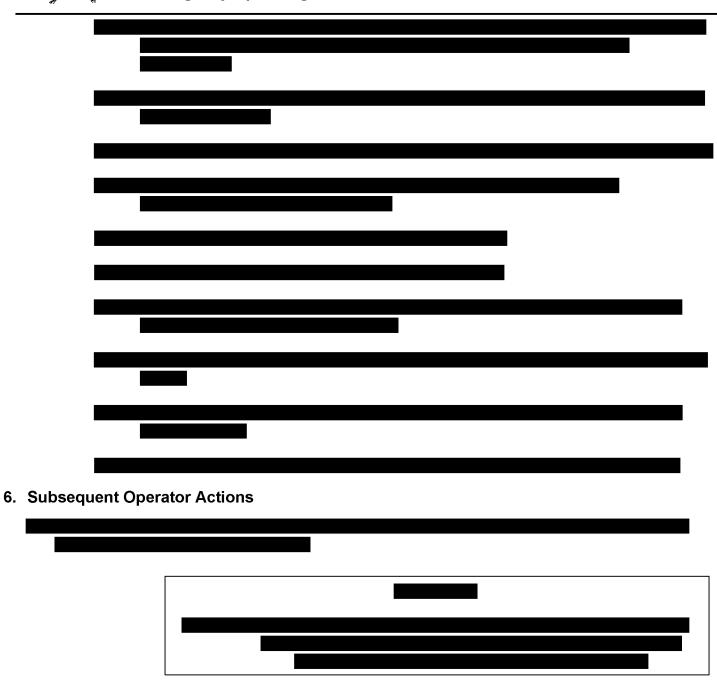
Emergency Operating Procedure – Cold Weather Procedure





Procedure:

Emergency Operating Procedure – Cold Weather Procedure





Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

Rev 5 EOP-9 Page 9 of 26



Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9





Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9



Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

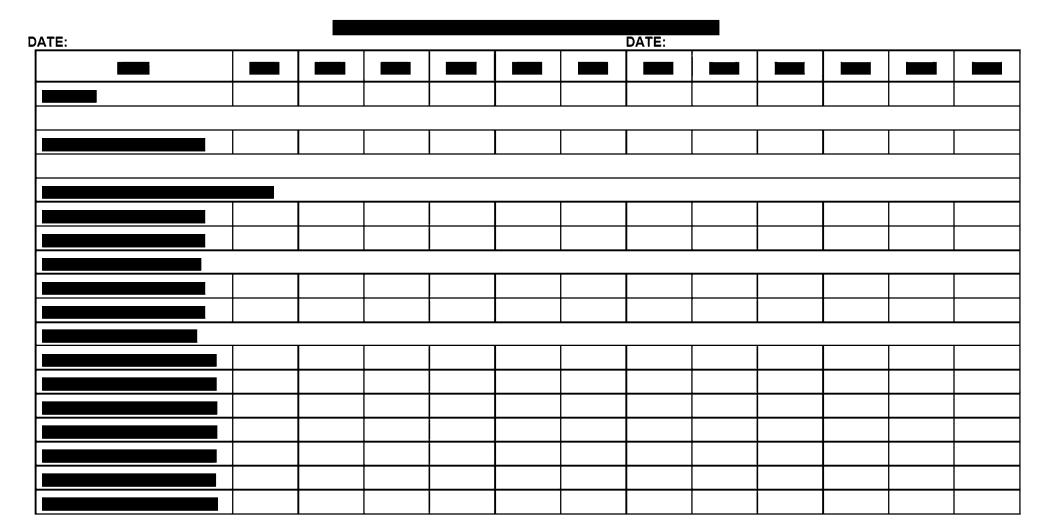




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

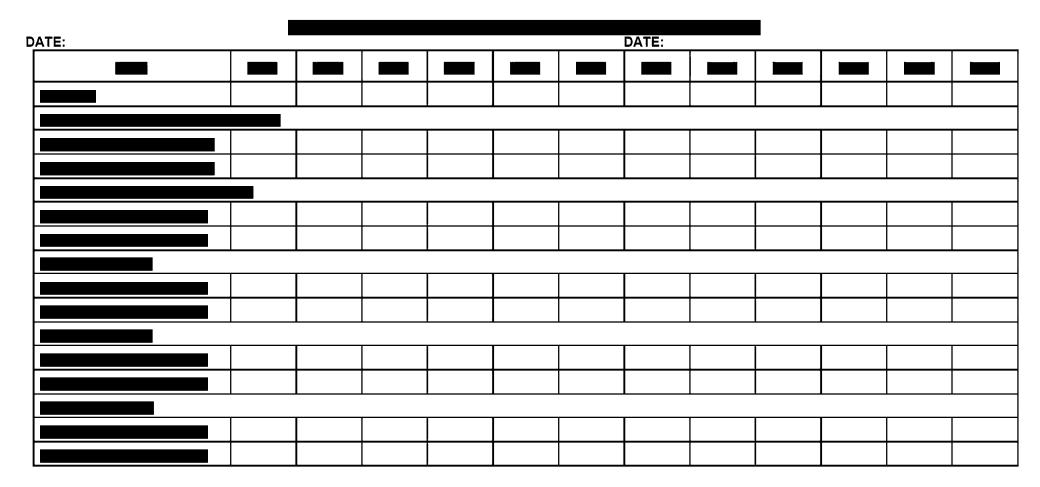




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

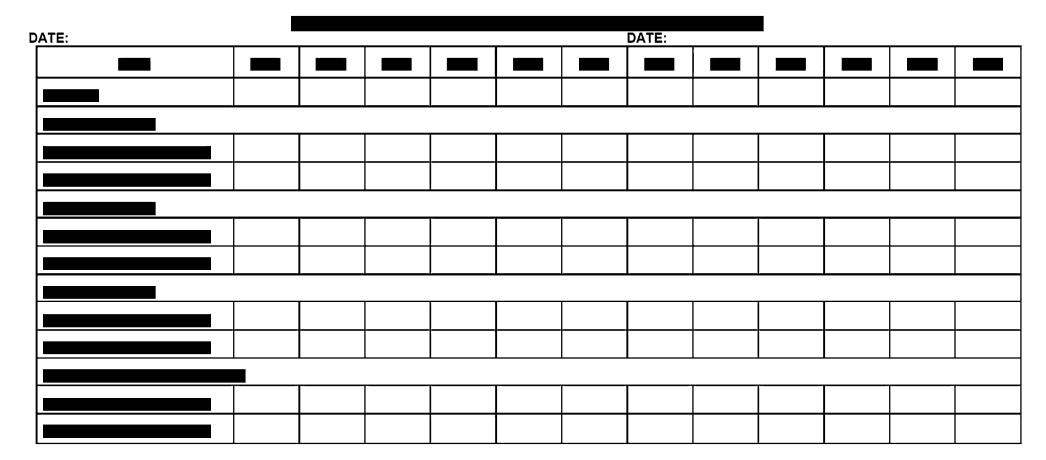




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

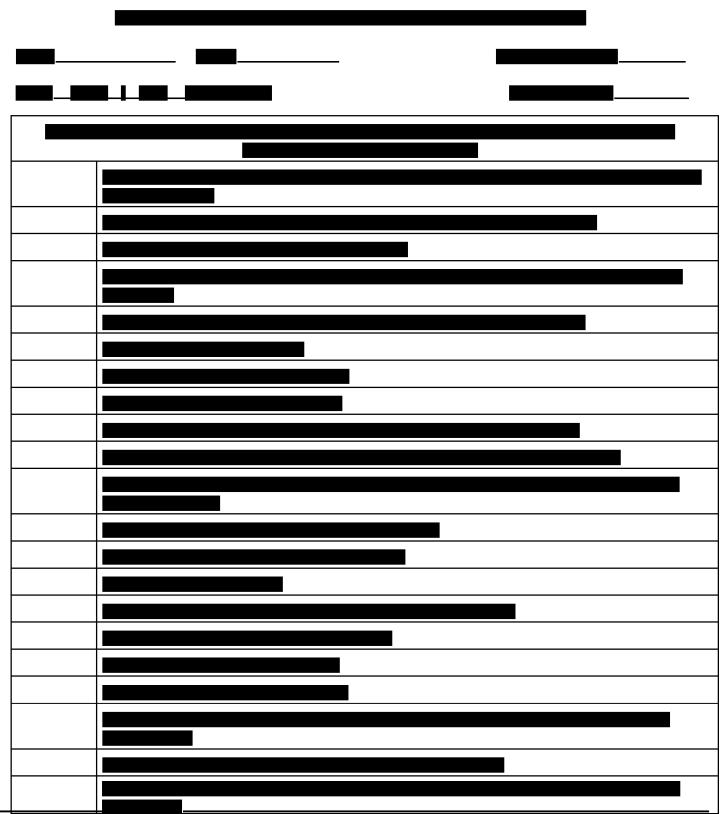




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9





Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

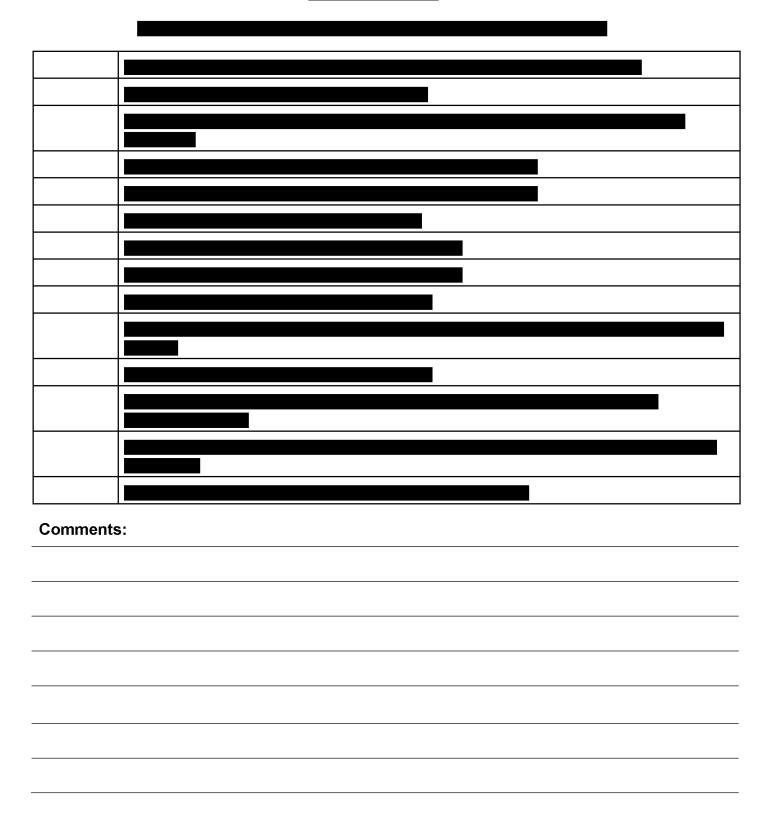




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

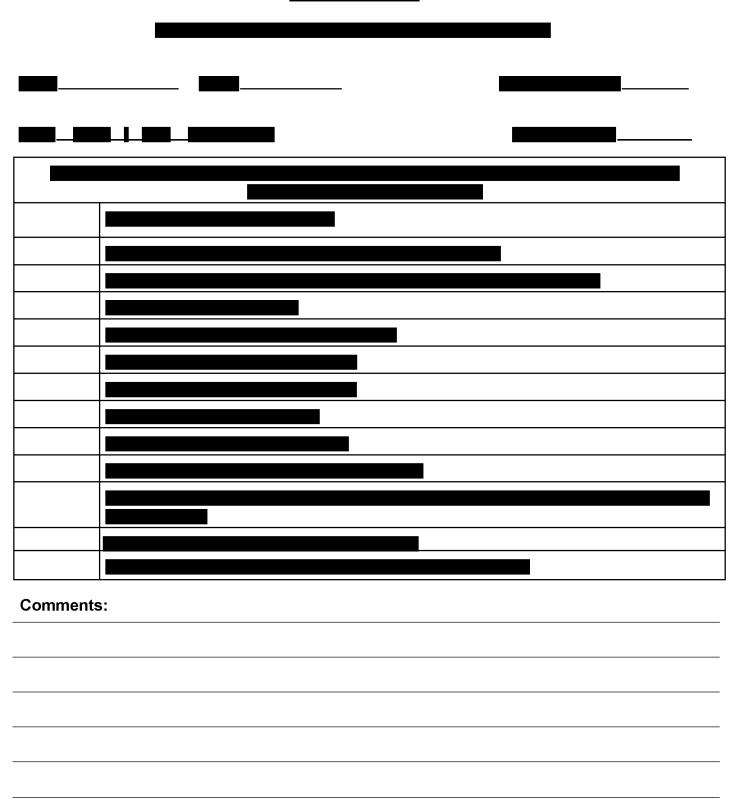




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

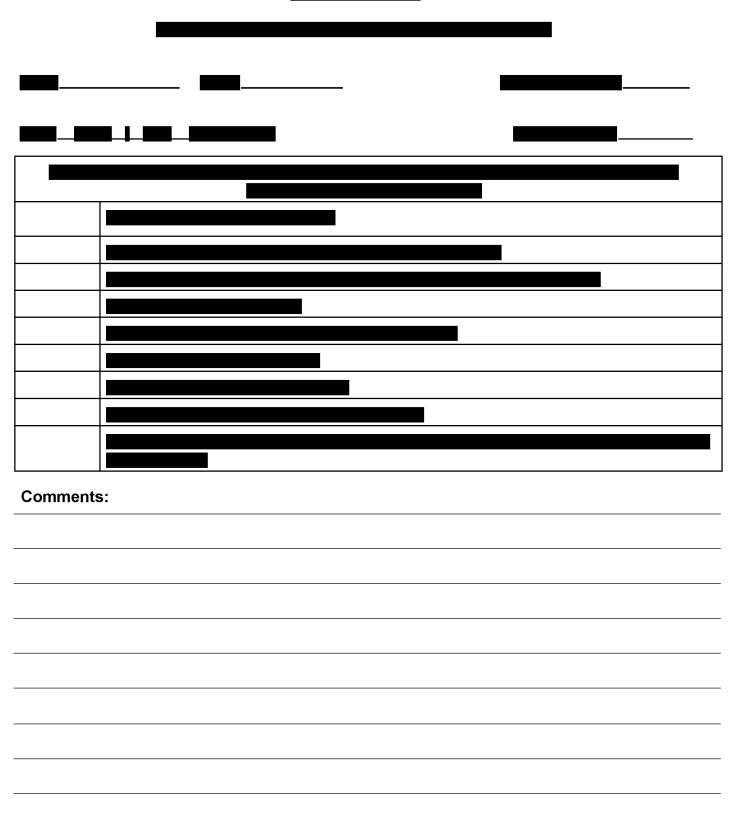




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

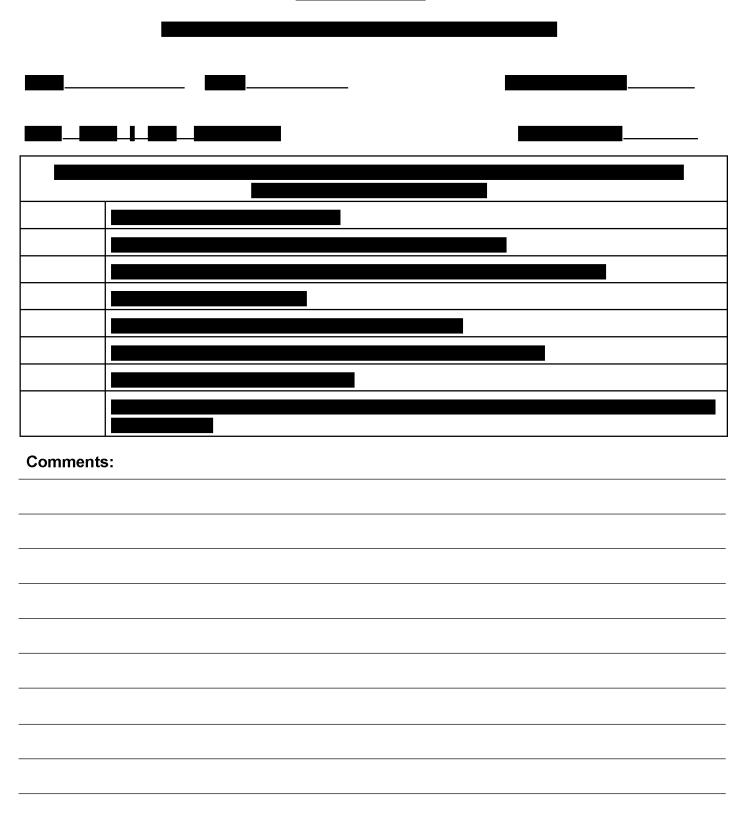




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

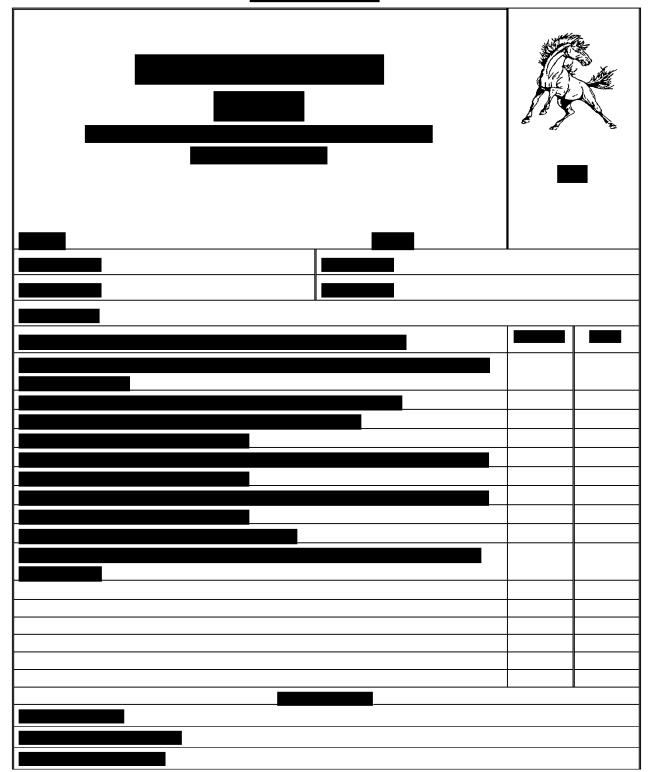




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

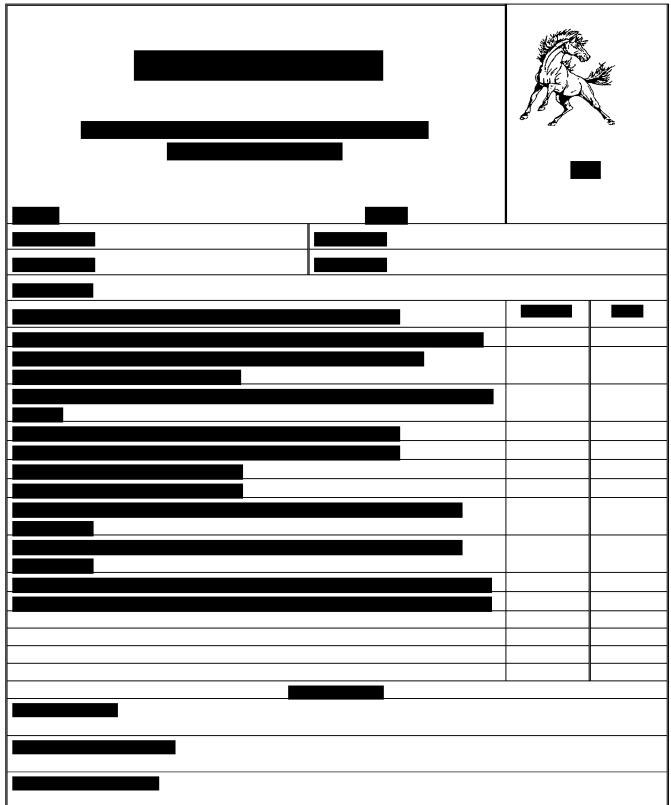




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9

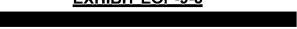




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9







Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9



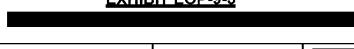




Procedure:

Emergency Operating Procedure – Cold Weather Procedure

EOP-9







Emergency Operating Procedure Hot Weather Procedure EOP-10

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By	
0	11/17/2014	PIC Group		Can Roenka	
1	04-29-2021	NRG Energy	H. Moreno	M. Goller	

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station

Rev 1 EOP-10 Page 1 of 21



Procedure:

EOP-10

Emergency Operating Procedure – Hot Weather Procedure

Procedure Revision Summary

1.	Document and Revision Number:		
	Procedure EOP-10		
2.	Document Title:		
	Hot Weather Procedure		
3.	Effective Date:		
	11/17/2014		
4.	Document Change:		
Rev 0	Initial draft for procedure		
Rev 1	Minor Format Changes. Updated Safety Considerations.		
_			
5.	Training Requirements:		
	Required reading for all affected personnel.		
	The precautions to be observed by operating staff personnel during their work within the plant.		

Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

TABLE OF CONTENTS

<u>SE</u>	<u>:CTION</u>		TITLE	<u>PAGE</u>
	1.0	Safet	y Considerations	4
	2.0	Prepa	arations Prior to Summer Weather Season	5
	3.0	Entry	Conditions	9
	4.0	Oper	ator Actions	10
		4.1	Preparations Prior to forecasted Extreme Hot Weather Event	10
		4.2	During an Extreme Hot Weather Event	12
	5.0	Subs	equent Operator Actions	14
	EXHIE	BIT EC	P-10-1 Mustang Station Critical Plant Parameters	15
	EXHIE	BIT EC	P-10-2 Mustang Station Combined Cycle Plant HVAC Checklist	18
	EXHIE	BIT EC	P-10-3 Mustang Station Units 4, 5, and 6 HVAC Checklist	20



Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

1.0 Safety Considerations



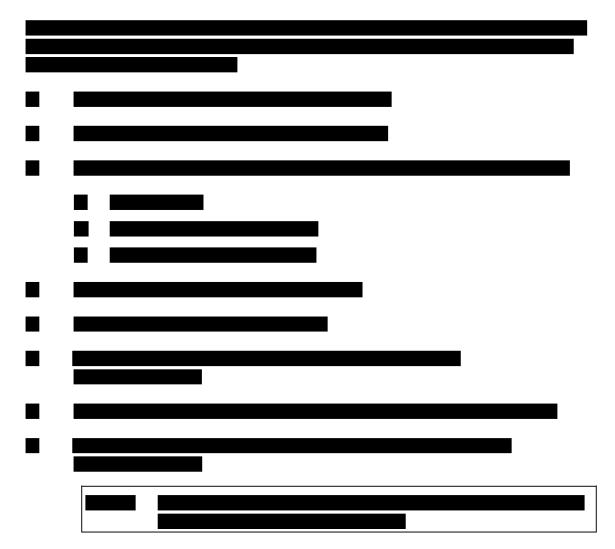


Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

2.0 Preparations Prior to Summer Weather Season





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

2.0 Preparations Prior to Summer Weather Season, continued



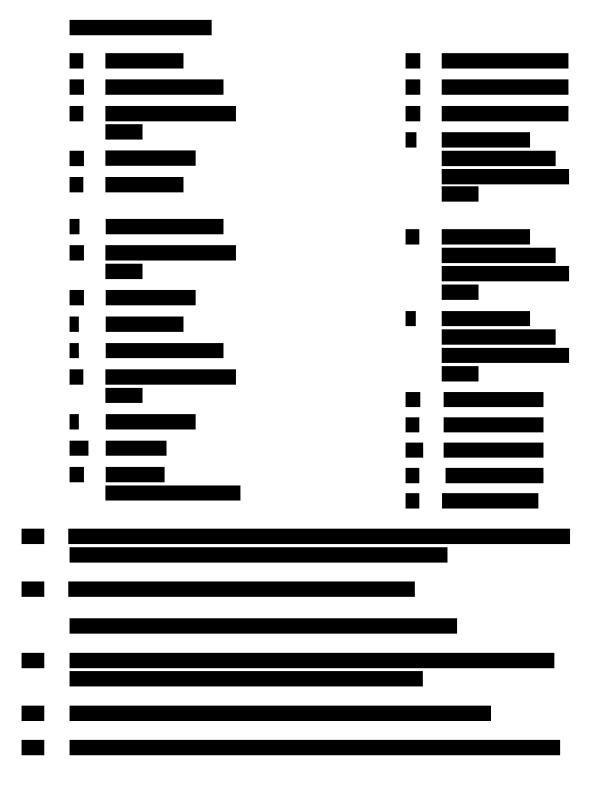


Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

2.0 Preparations Prior to Summer Weather Season, continued





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

2.0 Preparations Prior to Summer Weather Season, continued



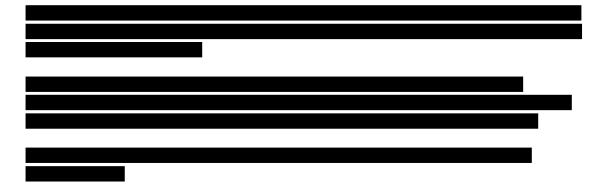


Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

3.0 Entry Conditions





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

- 4.0 Operator Actions
- 4.1 Preparations Prior to forecasted Extreme Hot Weather Event

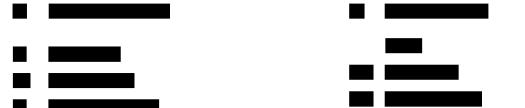


















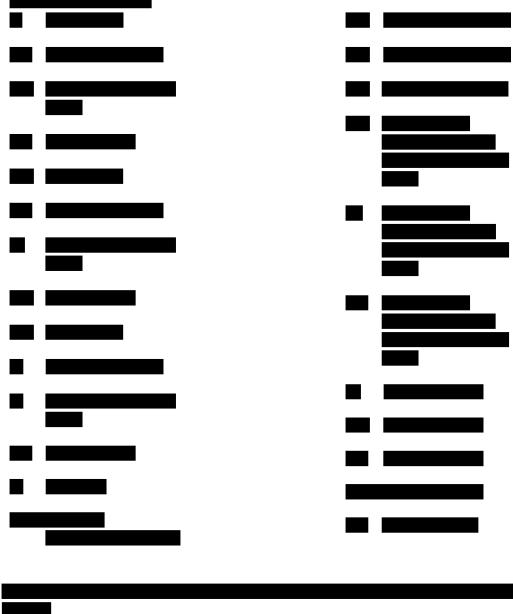


Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

Preparations Prior to forecasted Extreme Hot Weather Event, continued 4.1





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

4.2 During an Extreme Hot Weather Event

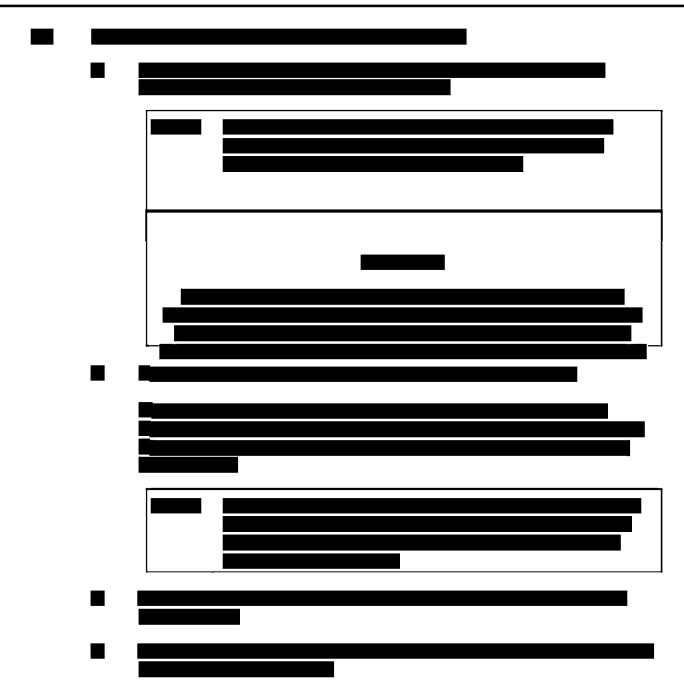
NOTE:			



Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10

5.0 Subsequent Operator Actions





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10



Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10





Procedure:

EOP-10

Emergency Operating Procedure – Hot Weather Procedure





Procedure:

EOP-10

Emergency Operating Procedure – Hot Weather Procedure

Comment	ts:	
-		
-		
-		



Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10





Procedure:

Emergency Operating Procedure – Hot Weather Procedure

EOP-10





Emergency Operating Procedure Tornado/High Wind Event EOP-11

Mustang Station

Denver City, Texas

Rev	Date	Prepared By	Reviewed By	Approved By
0		·		Cool Brouke
1	04-29-2021	NRG Energy	H. Moreno	M. Goller

This document contains proprietary information of Mustang Station, Inc. and is furnished to its client solely to assist him in the operation of the equipment described herein. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of Mustang Station,

Rev 1 EOP-11 Page 1 of 18



Procedure:

Emergency Operating Procedure – Tornado/High Wind Event EOP-11

Procedure Revision Summary

1.	Document and Revision Number:			
	Procedure EOP-11			
2.	Document Title:			
	Tornado/High Wind Event			
3.	Effective Date:			
4.	Document Change:			
Rev 0	Initial draft for procedure			
Rev 1	Minor format changes			
5.	Training Requirements:			
	Required reading for all affected personnel.			
	The precautions to be observed by operating staff personnel during their work within the plant.			

Procedure:

Emergency Operating Procedure – Tornado/High Wind Event EOP-11

TABLE OF CONTENTS

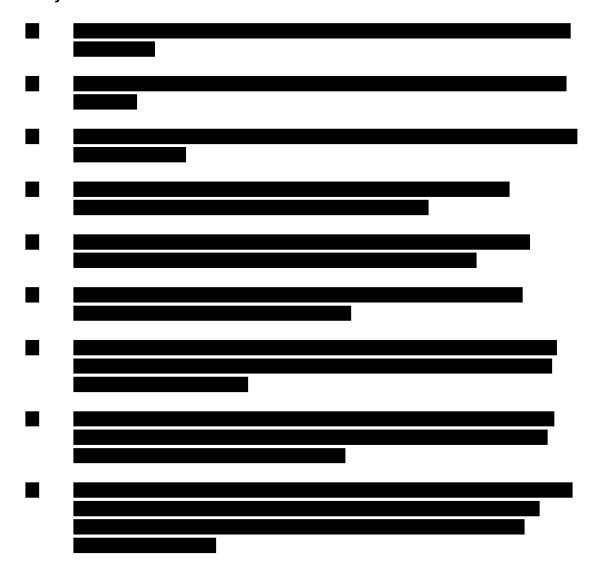
<u>SECTION</u>		TITLE	<u>PAGE</u>
1.0	Safet	y Considerations	4
2.0	Prepa	5	
3.0	Entry	7	
4.0	Operator Actions		8
	4.1	Preparations Prior to a Tornado or High Wind Event	8
	4.2	During a High Wind Event	10
	4.3	During a Tornado Watch or Warning	11
5.0	Subsequent Operator Actions		13
EXHIBIT E	EOP-1	11-1	15
EXHIBIT EOP-11-2			18



Procedure:

Emergency Operating Procedure – Tornado/High Wind Event EOP-11

1.0 Safety Considerations



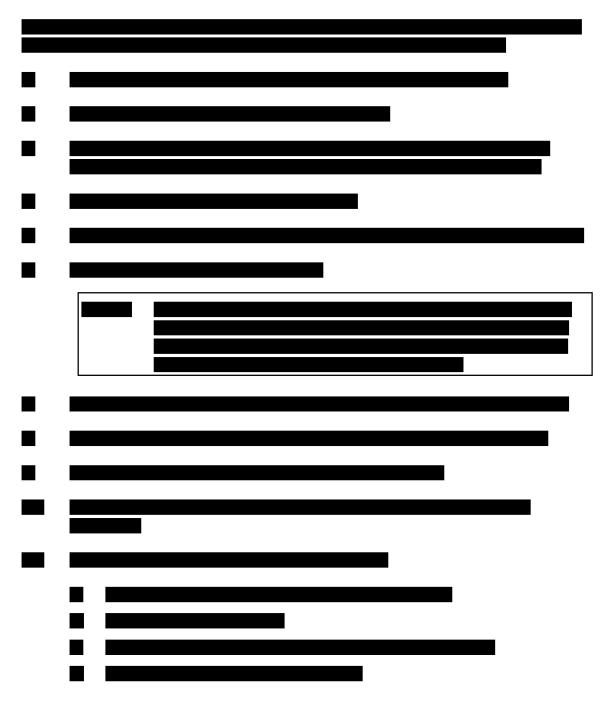


Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

2.0 Preparations Prior to Tornado Season



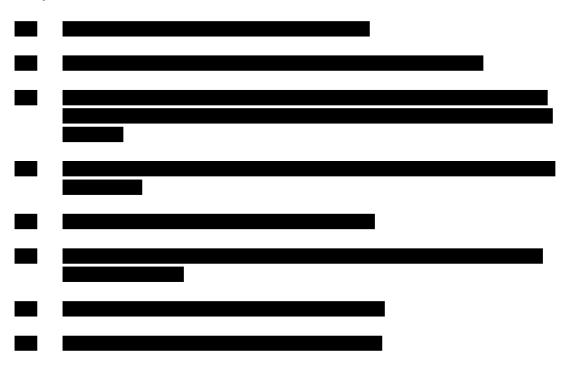


Procedure:

EOP-11

Emergency Operating Procedure – Tornado/High Wind Event

2.0 Preparations Prior to Tornado Season, continued

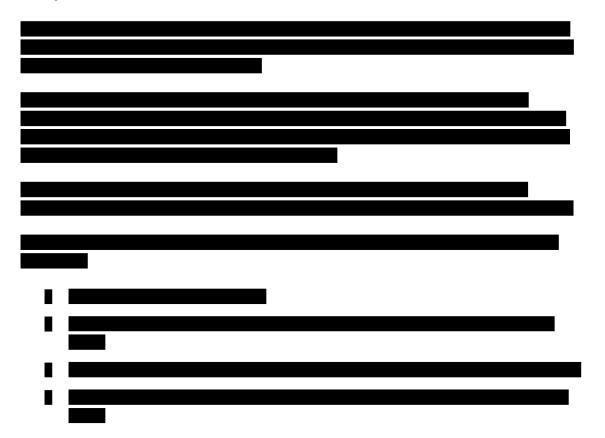




Procedure:

Emergency Operating Procedure – Tornado/High Wind Event EOP-11

3.0 Entry Conditions





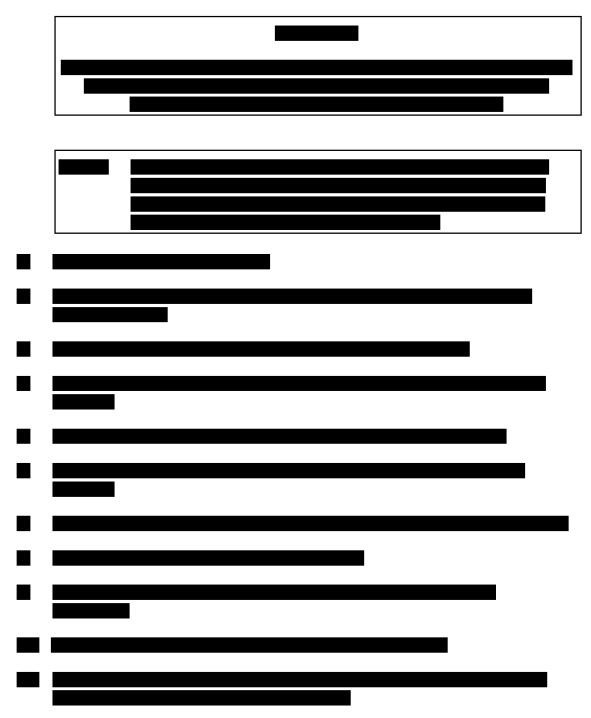
Procedure:

EOP-11

Emergency Operating Procedure – Tornado/High Wind Event

4.0 Operator Actions

4.1 Preparations Prior to a Tornado or High Wind Event





Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

4.1 Preparations Prior to a Tornado or High Wind Event, continued

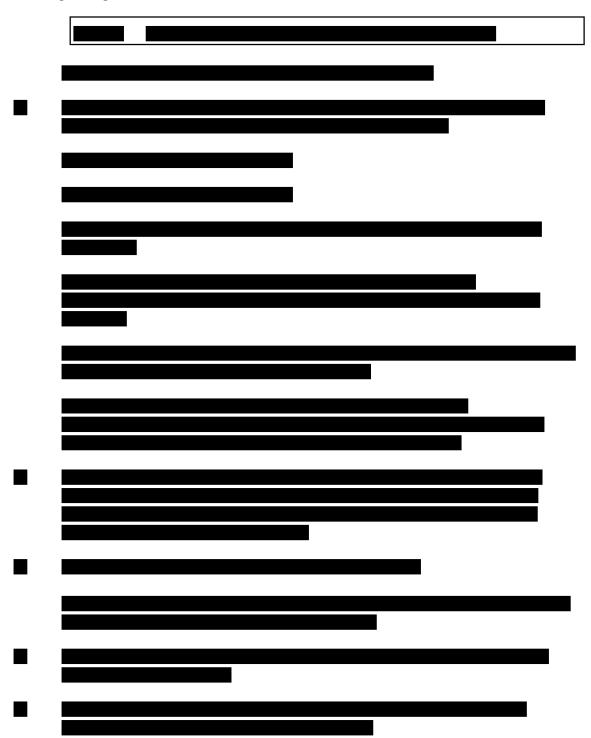




Procedure:

Emergency Operating Procedure – Tornado/High Wind Event EOP-11

4.2 During a High Wind Event



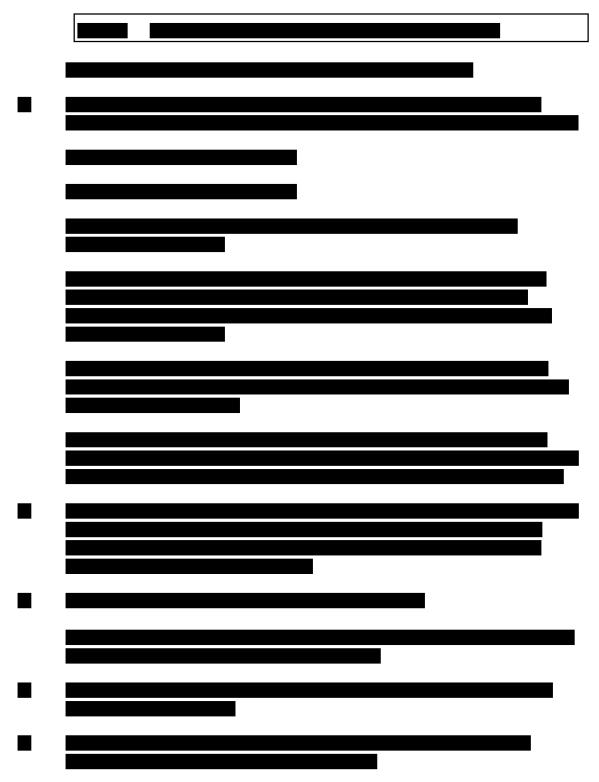


Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

4.3 During a Tornado Watch or Warning





Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

4.2 During a Tornado Watch or Warning, continued



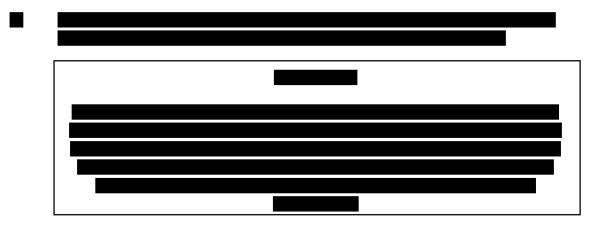


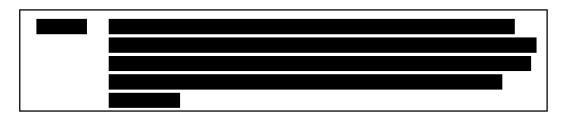
Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

5.0 Subsequent Operator Actions





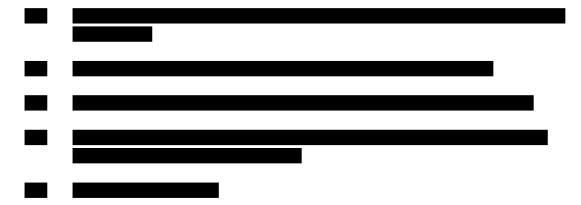


Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

5.0 Subsequent Operator Actions, continued



Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11





Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11



Procedure:

Emergency Operating Procedure – Tornado/High Wind Event

EOP-11

