Exhibit H

Xcel Energy

Energy Supply Policy System

Root Cause Investigation Report TITLE:

ENERGY SUPPLY Confidential Draft

Attorney-Client Privileged Communication/Attorney Work Product

ROOT CAUSE INVESTIGATION REPORT

Fill out page 1 as soon as practical following an event.

XES 2.600 A02

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necessary for Worker's Comp or doctor.

STEP 1: COLLECTION OF DATA

• This form does not replace or eliminate any forms

		EVI	ENT OC	CURREN	ICE		
Date/Time of Event:	June 2, 2020 at 1723 hour	s					
Location of Event: Coma	anche Generating Station, Un	uit 3					
DATE REPORTED: 6/2/2	.020						
EVENT TYPE*							
ENVIRONMENTAL	HEALTH AND SAFETY		NEAR	MISS		PRODUCTION	VEHICLE
 Hazardous Waste Permit Deviation Air Water Other: Spill or Release Other: 	 ☐ Fatality ☐ Injury or ☐ Illness ☐ Minor Injury ☐ First Aid ☐ Medical ☐ Treatment ☐ Restricted Duty ☐ Lost Time Injury Injury Type/Body Parts Affected: 		ersonnel n Incorr quipmer lose Cal ersonne quipmer	nt	; r	 ➢ Forced Outage (NERC/GADS Code: U1, U2, or U3) ➢ Startup Failure (NERC/GADS Code: SF) ➢ Equipment Damage ➢ Fire or Explosion ☐ Station Blackout Other: 	 Struck by other Vehicle Striking Other Vehicle Striking Fixed Object Backing Accident— Stationary Object Backing Accident— Other Vehicle Pedestrian Vehicle No. Vehicle Type
1		JOB LASS			J	OB ASSIGNED WHEN INJURED/EXPOSED	LENGTH OF EXPERIENCE AT THIS TASK
Operator	PSA	4	ΓY	🛛 N			
			Y	N			
			Y	N			
			Υ	N			
			Υ	N			
PERSON IN CHARGE DEPARTMENT NAME AND DEPARTMENT NUMBER							
PROCEDURE AND/OR WOR	K ORDER INVOLVED			EQU	UIPME	ENT NUMBER (from the tag	g), if appropriate.
Unit 3 start-up: roll-up of turbine, preparing to synchronize							
WHAT HAPPENED (Describe the events prior to, and including the event)							
While rolling up to full speed, the turbine lube oil pressure went to zero as the turbine reached approximately 3000 rpm, bearings lost oil and							
overheated. Sparks were reported coming from some bearings and a flash fireball was reported coming from the top of the turbine lube oil							
tank. The events are describe	ed in more detail in Append	lix A ba	sed upor	n interview	ews con	ducted with involved perso	onnel.

STEP 2: ANALYSIS

Definition: An accident is an unplanned, undesirable event that results in disruption of work, damage to property or equipment, illness or personal injury. The seriousness of an accident is often a matter of chance.

Purpose: The purpose of a root cause investigation is to identify and verify root cause(s) and develop and implement solutions that will prevent recurrence. This requires determining what to change and how it should be changed. This is accomplished through data collection, determining and verifying the root causes, identifying solutions, assigning responsibility for implementation of the action plan and communicating investigation results. Investigation Committee: Management in the organization where the event occurred is responsible for assembling the investigation committee. This committee should include, at the very least, the persons involved, witness(es), victim(s) if any, and anyone else with knowledge about the event or situation. Subject matter experts may also be called upon to provide valuable information.

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	NAME OF INVESTIGATION COMMITTEE MEMBER	NAME OF INVESTIGATION COMMITTEE MEMBER
DATE OF INVESTIGATION 6/29/2020		
CLAIM NO. (If Applicable)	N/A	

A Event type and undesirable result. (These items are choices for filling in the head of our Fishbone diagram.)

• Identify the type of event.

☐ Injury: Describe

Stoppage of Work.

Damage to Property.

Damage to Equipment.

Other

B CONTRIBUTING FACTORS THESE ARE NOT ROOT CAUSES.

Method

	No Methods
	Developed But Not Followed
	Developed But Not Understood
	Developed But Not Accurate
	Supervisory/Managerial Methods
	No Training
	Training Not Understood
	Inadequate Training
	Inspections
	Housekeeping
	Worker Selection
	Planning/Scheduling
	Job Briefing
	Work Practices
	Other
To	ols & Equipment
	Faulty
	Design
	Availability
	PPE
	Resource Allocation
\boxtimes	Labels, Signs, Displays, Etc.
	Labels, Signs, Displays, Etc. Corrosion/Wear Incorrect Use Unexpected Equipment Condition/Status Hidden System Response
	Incorrect Use
	Unexpected Equipment Condition/Status
	Equipment Out Of Service
	Confusing Displays/Controls
\boxtimes	Absence of Indication/ Instrumentation
	Other
Ma	terial
	Faulty
_	Design
=	Use
	Availability
	Identification

	Other
Env	vironment
	Weather
	Temperature
	Vibration
	Noise
	Light
	Working Space
	Chemical Exposure
	Atmospheric Condition
	Distractions/Interruptions
	Changes/Departure From Routine
	Task Monotony
	Simultaneous Multiple Tasks
	Other
Pec	<u>pple</u>
	Not Qualified
	Fatigued/Long Hours
	Physical Abilities/Previous Injuries
	Hazard Not Recognized
	Hazard Recognized But Accepted
	Hazard Recognized Not Eliminated
	Hazard Recognized But Not Reported
	CommunicationPlanning/
_	Scheduling
	Communication Job Briefing
	Communication Labeling/Signs
Ц	Communication Breakdown
\Box	Ergonomics/Body Mechanics – Force
_	Related
\Box	Ergonomics/Body Mechanics –
_	Overexertion
	Ergonomics/Body Mechanics –
_	Repetition
\Box	Ergonomics/Body Mechanics – Body
	Position

Ergonomics/Body Mechanics -
Weight Related
Mindset – Time Pressure
Mindset – Hurrying Shortcuts
Mindset - Complacency/ Over
confidence
Mindset – Assumptions
Mindset – Personality Conflict
Mindset – Habits
Mindset – Upset/Angry
Mindset – Stress
Individual Capabilities
Problem Solving Skills
Lack of Proficiency (infrequent
performance of Activity)
T 1 1 01 / T N

T 101 . T	3.6
Limited Short-Term	Memory

Notes:

The following is an explanation of the Fishbone Diagram Outline as shown below.

• Insert event type and undesirable result from Step 2A into the (Head) event Type box. Next, the contributing factors are shown from the bolded headings in Step 2B, as "Major Bones". Working on one category at a time, create sub-bones off of the "major bone" using the contributing factors identified in the check boxes of Step 2B. Then for each of the contributing factors, ask why it exists. This is accomplished by asking "why" enough times to establish the root cause of that contributing factor. Once the sub-bones are identified the logic flow should be rechecked by asking if the lowest sub-bone caused the next sub-bone, which in turn caused the next sub-bone, which caused the major bone, which caused the undesirable result. Once you have identified the root causes for each major bone, go to Step 3.

(Head) Event Type: Damage to Equipment

(Major Bone) Tools & Equipment

(Sub-bone) Contributing Factor 1: Design

1	have adequate indication of position.	point of failure, which isolated the emergency back up source of oil to
beyond its designed travel limits.		the turbine.

(Sub-bone) Contributing Factor 2: Labels, Signs, Displays

A. Valve did not have labels for every possible operating state (A, B, or A+B).

(Sub-bone) Contributing Factor 3: Absence of Indication/Instrumentation

A. No local pressure or flow instrumentation to provide indication that oil was flowing in direction intended.

STEP 3: RESULTS, CORRECTIVE ACTIONS AND FOLLOW-UP

For each Root Cause identified in the Fishbone diagram, assign corresponding corrective actions, responsible party(s), and target completion dates.							
WHAT WAS DONE CORRECTLY							
A. ROOT CAUSE – Valve did not have clear ind	ication of position	1					
CORRECTIVE ACTION(S): Visual indication							
addition of a stop plate to the underside of the ge							
The single point failure will be corrected by mod	ification of the en	nergency back up oil sup	oply to bypass the oi	l coolers an	d filters and their		
associated 6-way transfer valves.							
RESPONSIBLE		TARGET			COMPLETION		
PARTY(S) Reliability Engineering with Plant Ma	intenance &	DATE(S) 9/30/2020	for completion	DATE	DATE		
Contractor Support (piping modifications)							
STEP 4: APPROVALS - REVIEW, CONCUR, AND APPROVE INVESTIGATION UNIT MANAGER SIGNATURE DATE NEXT LEVEL MANAGER SIGNATURE DATE							
UNIT MANAGER SIGNATURE	DATE	NEXT LEVEL MAN	NEXT LEVEL MANAGER SIGNATURE				
COMMENTS							
IF MOTOR VEHICLE ACCIDENT: DID NOT COMPLY DID COMPLY							
STEP 5: COMMUNICATION RESULTS							
DISTRIBUTION TO	N	/IETHOD	ASSIGNED TO	TARGE	COMPLETION		
(Unit, Department, Division, Region, Corporation,	(Phone, Memo,	, Corporate Publication,		T DATE	DATE		
Etc.)		Etc.)					
STEP 6: REVIEW							
ASSIGNED FOR REVIEW	DATE REVIEWED	REVIEWED BY					
FINDINGS							

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Root Cause Investigation Report - Appendix A

This Appendix A is a summary based on an internal assessment of the events occurring between 4:45 and 5:30 p.m. on June 2, 2020, during the Comanche 3 start-up. The start-up activities leading up to the event on June 2, 2020, and specifically the day before, were generally going well. Some issues were encountered during these start-up activities, but the unit was determined to be ready for synchronization to the grid. During this process, a high turbine lube oil ("TLO") alarm triggered and a Control Specialist ("CS") initiated a turbine trip.

A team of personnel—a Senior Operations Manager, Operations Manager, and two individuals serving as Plant Specialist As ("PSA") (also referred to as the "team")—responded by troubleshooting the TLO's cooling water system. After arrival at the TLO skid, the Senior Operations Manager, Operations Manager, and PSA3 performed one operation to address oil cooling, while PSA2 worked on placing oil absorbents, investigating high TLO differential pressure, and swapping filters. Both TLO coolers were in service, which although allowable, was atypical. The team did not change the configuration. Rather, through investigation, they noted high TLO temperatures on the west oil cooler through physical touch. The Senior Operations Manager directed PSA3 to open the west cooler valve and oil temperatures significantly dropped. The change in system configuration was communicated back to the CS in the control room over the radio. At that time, the turbine was re-latched and the team proceeded with the unit startup.

PSA1 was not involved in addressing the high TLO temperature. While PSA1 was assigned to the turbine for the start-up, PSA1 had been directed by the CS to bubble ammonia to address a different issue associated with the start-up activities. PSA1 heard some radio communications regarding the actions taken by the other individuals. In addition, PSA1 had difficulty hearing due to loud noise around the turbine that exacerbated some level of hearing difficulty/loss by PSA1.

After the team addressed the high TLO temperatures, PSA1 communicated face-to-face with PSA2 (with the possible presence of PSA3) in a conference room near the control room (PSAs were not permitted to be in the control room due to COVID-19 precautions). PSA2 discussed the TLO water cooler system configuration with PSA1. PSA1 went to investigate the issue further as PSA1 was not satisfied with the information provided by PSA2. No specific discussions occurred regarding changing system configuration during this exchange.

Upon arrival at the TLO skid, PSA1 felt the pipe that transmitted oil and, in his opinion, it felt cooler than it should have. He also noted that the cooler configuration was abnormal. In response, he operated the six-way valve on the TLO system, attempting to change the configuration to one cooler. When PSA1 rotated the valve 180 degrees, it isolated oil flow to the turbine. This resulted in low turbine oil, a subsequent turbine trip, and damage to the turbine due to friction on the turbine bearings. The valve design should not have allowed oil flow isolation. However, the internal stop was broken/defective (sheared dowel pin that was discovered after the TLO was disassembled) which allowed the valve to isolate oil flow. PSA1 believed he was taking the correct action to realign oil flow based on the markings on the valve. He believed he could not isolate oil flow regardless of valve configuration due to the valve design and stop pin. After operating the six-way valve 180 degrees, he waited, listened, and heard what sounded like oil flowing. However, he

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Root Cause Investigation Report – Appendix A

isolated flow instead of realigning oil flow to the normal configuration (i.e., oil flow through one TLO cooler).

There was no communication from PSA1 to a CS prior to his inspection and troubleshooting of the TLO coolers. As discussed above, face-to-face communications did not occur between work groups (i.e., CSs and PSAs) due to preventative COVID-19 measures. Some personnel—including all three PSAs—reported feeling disconnected and isolated because they were not in the control room and communicating with the CS as they typically would during start-up.