

## Incident Summary (#5613364)

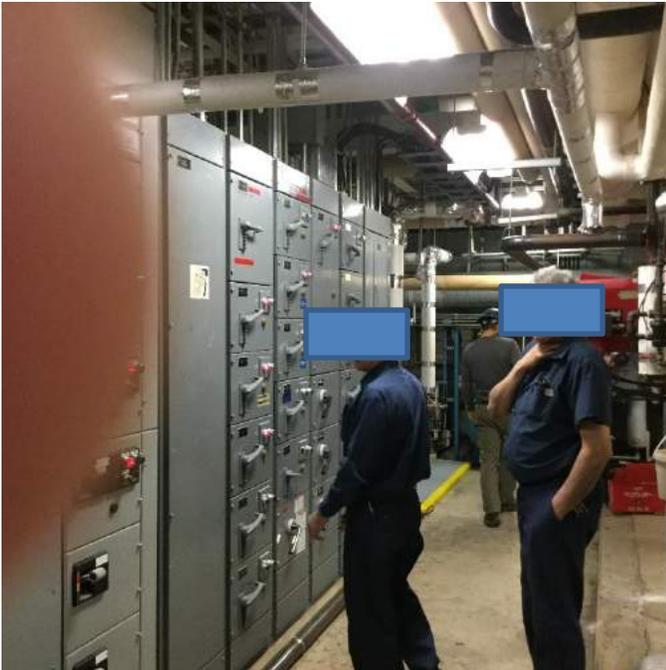
SUPPORTING INFORMATION	Incident Date		March 6, 2017, 14:03 hrs	
	Location		Kamloops	
	Regulated industry sector		Low voltage electrical system (30 v to 750 v)	
	Impact	Injury	Qty injuries	1
			Injury description	One electrical worker received an electrical shock to his arm while working on a 600 volt energized circuit breaker
			Injury rating	Minor
	Damage		Damage description	No damage to equipment
			Damage rating	None
	Incident rating		Minor	
	Incident overview		An electrical worker received an electrical shock while working on an energized 600 volt circuit breaker. The workers arm made contact between the metal enclosure and the circuit breaker. The worker was freed from the circuit breaker by another worker. The worker received a minor burn to his arm	
INVESTIGATION CONCLUSIONS	Site, system and components		<p>Electrical work must not be performed energized electrical equipment unless not feasible to do so.</p> <p>If electrical work must be performed on energized equipment, the applicable safety procedures, safety equipment and personal protective equipment (PPE) must be adhered to for the potential arc flash and shock hazard involved with the electrical equipment</p>	
	Failure scenario(s)		<ul style="list-style-type: none"> <li>- An essential (critical) electrical power distribution center supply power to the hospitals operating rooms failed</li> <li>- Power to the operating room life support equipment was lost</li> <li>- Electrical workers were attempting to trouble shoot and restore power quickly to the OR's essential equipment</li> <li>- While working on the energized equipment distribution center the incident occurred</li> </ul>	
	Facts and evidence		<p>The electrical worker was working on energized electrical equipment while not following safe work practices, wearing the applicable PPE or protective equipment</p> <p>The electrical equipment was not identified with arc flash or shock hazard warning signs</p> <p>The electrical circuit breaker directly involved was incorrectly and hazardously reverse wired</p> <p>The incident was not reported to BCSA by the Operating Permit Holder as required by regulation</p>	

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Causes and contributing factors	<p><i>Failure to adhere to mandatory regulatory safe work practices while working on energized electrical equipment very likely contributed to the incident occurring</i></p> <p><i>Hazardous installation of a reverse wired circuit breaker supplying power to the operating room essential power distribution panel</i></p>
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225 amp, 600 volt, 3 phase breaker enclosure (reverse fed)



MCC F

225 amp, 600 volt, 3 phase  
power distribution center



225 amp, 600 volt, 3 phase  
circuit breaker