

# Safe Work Practices

<p>Title:</p> <h2 style="text-align: center;">Motor Operated Switches</h2>	<p>Reference: <b>SWP-6.01</b></p>	<p>Revision:</p>
	<p>Page: <b>1 of 2</b></p>	
	<p>Date: <b>12/21/2017</b></p> <p>Revised:</p>	
<p><b>1.0 GENERAL</b></p> <p>1.1 The purpose of this document is to provide an understanding of the following:</p> <ul style="list-style-type: none"> <li>▪ 43 devices, what are they and where are they located</li> <li>▪ Proper switching and tagging of motor operators</li> <li>▪ Uncoupling, locking, and operating motor operated drives and switches</li> </ul> <p><b>2.0 43 DEVICE</b></p> <p>2.1 43 Device Definition: A manually operated device that transfers the control circuits in order to modify the plan of operation of the switching equipment or of some of the devices.</p> <p>2.2 At Versant Power the 43 device is a switch that transfers control of the motor operator from S.O. (remote) to the switchman (local) and back again.</p> <ul style="list-style-type: none"> <li>▪ Switch in Local: Inhibits SCADA control</li> <li>▪ Switch in Remote: Enables SCADA control</li> <li>▪ Putting this 43 device in Local is part of the SO issued switching order for Red and Blue tag protection.</li> </ul> <p>2.3 Typical Switching Order Steps</p> <ul style="list-style-type: none"> <li>▪ <u>System Operator</u>: You can put 7708 43 to local, check 7708 open, uncouple motor drive, lock switch open and Red Tag 7708 for John Doe</li> <li>▪ <u>John Doe</u>: I understand you want me to put 7708 43 to local, check 7708 open, uncouple motor drive, lock switch open and Red Tag 7708 for myself.</li> <li>▪ <u>System Operator</u>: That is correct</li> </ul> <p>Putting the 43 device in Local is part of the SO issued switching order for Red and Blue tag protection. In this example, 7708 is a gang operated air break switch that has a motor drive attached to it. The switch is visually checked open. The motor drive's 43 device is switched to local, the drive is uncoupled from the switch, locked and tagged.</p> <p><b>3.0 UNCOUPLING THE MOTOR DRIVE</b></p> <p>3.1 In order to render a motor drive inoperable, the vertical pipe that rotates to open and close the switch must be uncoupled (or separated) from the motor drive.</p> <p>3.2 When the vertical pipe is un-coupled from the motor operator, the vertical pipe can be locked in place with the switch in the open or closed position. The un-coupler handle is also lockable in the coupled position.</p>		

Title:

# Motor Operated Switches

Reference:

SWP-6.01

Revision:

Page:

2 of 2

Date:

12/21/2017

Revised:

## 4.0 OPENING THE SWITCH WITHOUT THE MOTOR OPERATOR

- 4.1 Once a motor operator has been uncoupled from the switch, the switch can be operated manually. This would be done if there was power lost to the motor operator or if the motor operator had failed.
- 4.2 All of the motor operator mechanisms are different in how they are manually operated, but most have a pipe handle that can be inserted into the switch and operated similar to a gang operated switch.

### **Important Safety Note!!**

Remember to always visually check all blades open (or closed) on the switch itself upon completion of switching procedures!!

Developed by:

Brian Gould, Derek Fiske

Approved by: SWP Approval Committee

Stan Hartin, Brad Flannery, Scott Richards, Neil Lyons,  
Brian Gould