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## GENSET Shutdown Procedure

### I. Purpose:

The purpose of this procedure is to describe the steps necessary to shut down the caterpillar generator so that safe maintenance and repair of the generator can commence. This procedure may only be done by trained personnel.

### II. Cautions and Hazards:

- **High voltage** exists within this van. Therefore, any maintenance, other than visual inspection, **must use this shutdown protocol**.
- This procedure involves working with high-energy sources. **Only personnel** with proper training and documentation may perform this operation.

### III. Requirements:

- If live measurements are required, remember to use the one-hand method, preferably the right hand and the two-man rule.
- If you do not know the one-hand method or two-man rule, **DO NOT PROCEED**. Find someone who is trained to perform this work.
- All work performed follows the two-man rule.
- No work with live power is performed without proper electric permitting and documentation completed as per Australian standards.

### IV. Procedure:

#### A. Steps:

1. Determine type of service/work required.
2. Determine equipment and parts that are needed, such as oil, tools, meters, filters, etc.; have available before shutdown.
3. Through coordination with Operations Manager, establish a shutdown time that has minimum impact on site scientific data.
4. No work is performed in the U-VAN with power applied unless absolutely necessary. Proper electrical training and documentation are mandatory.
5. Go to **the caterpillar generator's** Electronic Modular Control Panel (EMCP) and set the rotary switch from "Auto" to "Stop/Reset" position.

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6. Go to left-hand side of generator, disconnect the black battery cable (ground lead) at the batteries and turn circuit breaker (located above and to the left of the GENSET Batteries) on GENSET to "OFF" or stop position.
7. The shutdown is now complete and the generator will not start.; refer to GENSET System Startup Procedure [TBD] to restart the GENSET system.

#### V. References:

1. Fred Helsel, SNL

#### VI. Attachments:

None.