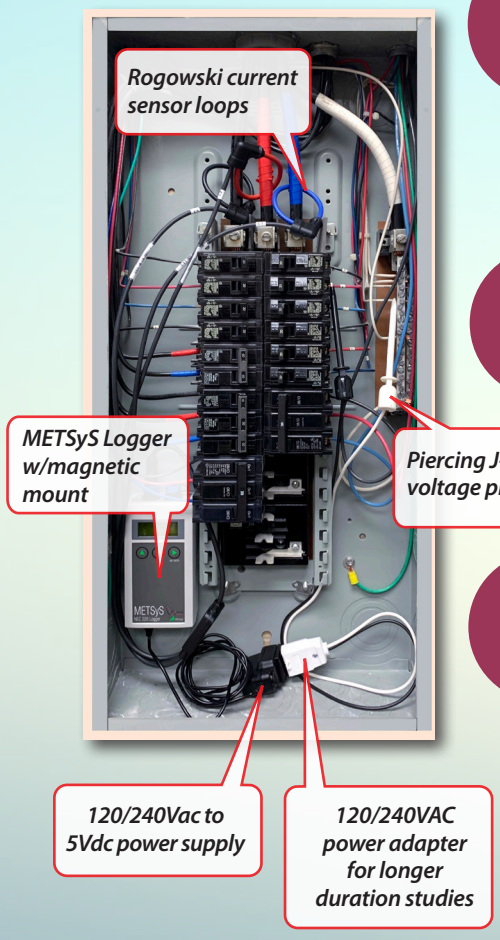
Now there's a simple and accurate way to conduct Cal HCAI (formerly OSHPD) state of California medical facility connected load studies

Every time you need to add loads to an electrical subpanel, you need to conduct a connected load study to confirm code compliance. For medical facilities in California, the standard is Cal HCAI – formerly known as OSHPD. Let's face it. These studies are time-consuming to conduct and tedious to accurately report.

But now there's a far better way – *POWERetc's* METSyS Current Logger and Custom Report Generator Package makes it super-easy to set up and conduct Cal HCAI (OSHPD PIN 38) connected load studies. It's as easy as:

1-2-3-DONE



1 Hookup

- **Place** the ultra-compact METSyS Logger inside the enclosure
- **Attach** the PROSyS Rogowski coils included in the package for each phase and neutral
- **Monitor** for up to 100 hours on the current logger's fully charged internal battery – or use the package's external power supply and voltage clips for longer-duration studies

2 Setup

- **Turn** Bluetooth ON and PAIR the mobile app with the METSyS logger
- **Label** the study
- **Select** the averaging interval
- **Set** the study duration

3 Retrieve/Report

- **Download** the METSyS logging session to the app
- **Take** a screenshot of plot, save to photos or email (optional, but a good practice)
- **Email a** log for later processing with the proprietary spreadsheet Excel macro.
- **Create** perfect reports with the *POWERetc* report generator (The macro takes all the mystery out of the equation – see an example report on the next page.)

The METSys Current Logger Package is available for rent or purchase exclusively from POWERetc. Contact us today.

POWERetc Corporation (0) 408 540-3199 / info@poweretc.com / www.poweretc.com

Create Clear, Concise Load Study Reports

Calif. HCAI (Pin 38) - formerly known as Cal OSHPD - mandates a 72-hour load study to confirm feeder capacity whenever loads are added to existing panels.

The powerful Excel macro developed by – and only available from – *POWERetc,* makes it easy to confirm compliance with Cal HCAI requirements – while creating easy-to-read load study reports.

The Excel macro also calculates, and plots, the continuous load and identifies the maximum continuous load (MCL).
[NOTE: A continuous load is defined, by the NEC, as a load that is present continuously for 180 minutes (three hours).]

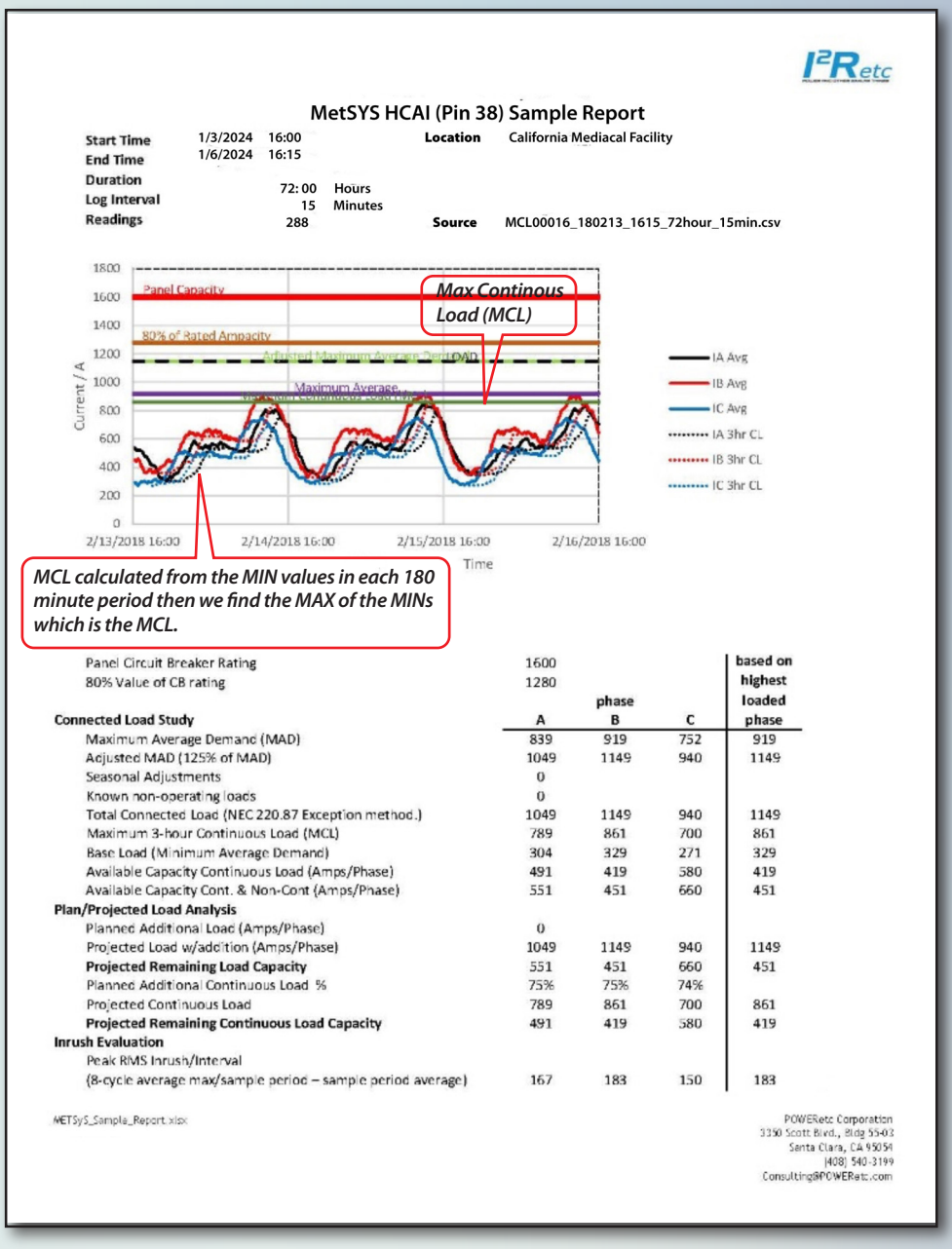
The *POWERetc* macro walks you through a series of screens – from analyzing the load characteristics to producing the final report.

Set Up the analysis according to preference, such as:

- Panel ampacity
- Seasonal adjustments
- Planned additional load

Customize formatting and images, including:

- Report title
- Logo Images at top right and/or left top
- Text at bottom



MetSYS HCAI (Pin 38) Sample Report

Start Time	1/3/2024	16:00	Location	California Mediacal Facility
End Time	1/6/2024	16:15		
Duration		72: 00	Hours	
Log Interval		15	Minutes	
Readings		288	Source	MCL00016_180213_1615_72hour_15min.csv

MCL calculated from the MIN values in each 180 minute period then we find the MAX of the MINs which is the MCL.

					based on highest loaded phase
Panel Circuit Breaker Rating	1600				
80% Value of CB rating	1280				
		phase			
Connected Load Study	A	B	C	
Maximum Average Demand (MAD)	839	919	752	919
Adjusted MAD (125% of MAD)	1049	1149	940	1149
Seasonal Adjustments	0			
Known non-operating loads	0			
Total Connected Load (NEC 220.87 Exception method.)	1049	1149	940	1149
Maximum 3-hour Continuous Load (MCL)	789	861	700	861
Base Load (Minimum Average Demand)	304	329	271	329
Available Capacity Continuous Load (Amps/Phase)	491	419	580	419
Available Capacity Cont. & Non-Cont (Amps/Phase)	551	451	660	451
Plan/Projected Load Analysis				
Planned Additional Load (Amps/Phase)	0			
Projected Load w/addition (Amps/Phase)	1049	1149	940	1149
Projected Remaining Load Capacity	551	451	660	451
Planned Additional Continuous Load %	75%	75%	74%	
Projected Continuous Load	789	861	700	861
Projected Remaining Continuous Load Capacity	491	419	580	419
Inrush Evaluation				
Peak RMS Inrush/Interval				
(8-cycle average max/sample period – sample period average)	167	183	150	183

METSyS_Sample_Report.xlsx

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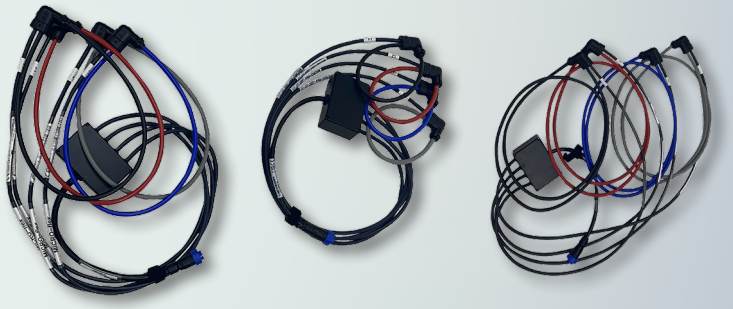
The POWERetc METSyS Logger package comes complete with current probes and an auxiliary power supply. The package is equipped with a choice of PROSyS current probes.



Three standard probe sets are offered as part of the METSyS Logger package. The ProSyS probes are offered with 3", 6" and 15" diameter coils, each with three phase heads plus neutral (four heads).

The METSys Current Logger Package is available for rent or purchase exclusively from POWERetc. ***Contact us today.***

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