

# STARTCO® Newsletter

Spring 2006

www.startco.ca

## Arc Flash Reduction

Reducing the probability of arc flash incidents will make electrical work safer.

Approximately 80-90% of faults in electrical systems begin as ground faults. On solidly grounded systems, ground faults can cause an arc flash. High-resistance grounding (HRG) limits the energy available at the fault and, therefore, reduces the probability of an arc flash. While this does not eliminate the requirement of NFPA 70E, it does make working near energized equipment safer. HRG, just like Personal Protective Equipment (PPE), can limit worker exposure to arc flash, but only during a ground-fault.

The Startco **SE-325** and **SE-330** monitor the continuity of the NGR on HRG systems. Startco can provide monitored neutral-grounding resistors in enclosures to convert ungrounded and solidly grounded systems to HRG.




## Remote Operation Reduces Arc Flash Exposure

Another method for reducing the hazard of arc flash is removing personnel from the hazard zone. Remote operation of the switching device is one example of this. The **MPS Motor Protection System's** modular design allows the operator interface (OPI) to be mounted in a safer, remote location. Programming, metering, control and reset can all be performed at a safe distance.



## Product Updates: SE-105, SE-107, and SE-325

Changes have been made to the SE-105 and SE-107 Ground-Fault Ground-Check Monitors and the SE-325 NGR Monitor. Improvements include:

- The addition of a green Power LED,
- Improved supply-transient-overvoltage withstand,
- AC-supply brown-out withstand level improved to 55% of nominal for SE-105 & SE-107,
- CSA certification extended to include US and Canadian standards, 
- New optional features:
  - Ground-fault harmonic filtering; Option H,
  - SE-325 non-latching trips; Option N,
  - SE-325 extended ground-fault trip time; Option T.



The new relays require no installation or operational changes. Updated technical manuals have been released to coincide with the product upgrades. The manuals are available at [www.startco.ca](http://www.startco.ca). Startco will continue to back the SE-105, SE-107, and SE-325 with a five-year warranty.

## Did You Know?

The **SE-134C** Ground-Fault Ground-Check Monitor has an adapter plate available to simplify retrofitting. The PMA-8 assists in replacing Atkinson Ohmser II relays. The end-of-line device must be changed, but often several old relays in series can be replaced by one SE-134C.



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## Startco in the Fast Lane

Startco would like to thank the Renault F1 Racing Team in the UK for their recent purchase. Renault is using SE-704 Earth-Leakage Monitors on portable generators. Harmonics were causing the existing residual-current detectors to nuisance trip.



Startco SE-700-series relays feature digital filtering that prevents harmonic-related nuisance tripping.

## Inventory Depleted on MPU-16A and FPU-16

The MPU-16A and FPU-16 have been discontinued due to limited component availability. The MPU-16A is replaced by the MPU-32. Startco will continue to support the MPU-16A and the FPU-16. See T.I. 16.1 for MPU-16A to MPU-32 upgrade instructions.



## SE-125 GF-GC Monitor Announcement

Regular production of the SE-125 Ground-Fault Ground-Check Monitor will halt at the end of 2006. The SE-125 is replaced by the microprocessor-based SE-130-series GF-GC Monitors.

## 2006 Distributor School

Congratulations to the following participants who completed the 2006 Startco Distributor Course:

**Ecol Electric Ltd** - Mike McDonnell, Steven Zavitz, Chris Johnson, Chanley Wellings, Achilles Bellisle, Todd Fox, Gavin Dayman, Caroline Shaver, Eoin Campbell, Ron Demeduk, Gebi Bornaia

**Startco Engineering Ltd.** - Mark Pollock

## New Employee Joins Startco Marketing Team

Startco Engineering Ltd. would like to extend a big welcome to its newest member of the Startco Marketing Team - **Mark Pollock, EIT, Technical Sales.** Welcome to Startco!

## New Distributor

Welcome to our newest distributor, **Argo International Corporation**, located in Dallas and Houston, TX.



## Manual, Software, and Firmware Updates

The following updates are now available:

- SE-100T Manual
- SE-105 Manual and Datasheet
- SE-107 Manual and Datasheet
- SE-325 Manual and Datasheet
- SE-330 Manual and Datasheet
- SE-COMM-RIS v1.4 Software
- MPU-32 v1.51 Firmware
- MPS v2.20 Firmware
- SE-330 v7 Firmware

## Upcoming Events

OTC 2006  
May 1-4, 2006  
Houston, TX



CIM Tradex  
May 14-17, 2006  
Vancouver, BC



CUEE  
May 16-17, 2006  
Toronto, ON



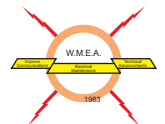
IEEE Transmission & Distribution  
May 22-24, 2006  
Dallas, TX



Expomin 2006  
May 23-27, 2006  
Santiago, Chile



WMEA  
June 7-9, 2006  
Salt Lake City, UT



Mining Electrical Safety Conference  
June 14-16, 2006  
Brisbane, Australia



IEEE-PCIC  
September 11-13, 2006  
Philadelphia, PA



PowerGen  
November 28-30, 2006  
Orlando, FL



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