

## The LLS-II, The Next Generation Of SF<sub>6</sub> Load Break Attachments Is Here Now

Incorporating all of the key features of the original LLS (single gap SF<sub>6</sub> interrupters capable of 2000 Amp or 3000 Amp load breaking, 200 Amp or 300 Amp line charging interrupting, and 2000 Amp or 3000 Amp loop splitting; 2000 full load operations capability, and visual indication of adequate dielectric via a pressure gauge per phase) **the second generation LLS, the LLS-II, also has the added capability of being adapted to a variety of manufacturer's vertical break disconnect switches as well as all Southern States vertical break switch offerings.** This capability is achieved through the use of a composite housed interrupter in lieu of the porcelain housed interrupter on the original LLS, dramatically reducing the overall weight of the device. Further, a redesigned mechanism provides a much lower operating effort, allowing its use on switches equipped with standard worm gear operators if desired, or in its traditional role on switches equipped with motor operators to allow remote switching.



Design Characteristics	LLS-II-2000		LLS-II-3000	
Maximum Voltage	72.5 kV -170 kV	245 kV	72.5 kV -170 kV	245 kV
Load Breaking Capability	2000 A	2000 A	3000 A	2000 A
Line Dropping Capability	300 A	200 A	300 A	200 A
Loop Splitting Capability	2000 A	2000 A	3000 A	3000 A
Nominal Operating Pressure	55 psig at 20°C for 72.5 kV, 65 psig at 20°C for 123 kV-170 kV	65 psig at 20°C	55 psig at 20°C for 72.5 kV, 65 psig at 20°C for 123 kV-170 kV	65 psig at 20°C
Full Load Operations	2000	2000	2000	2000

### Switch Ratings Are Unaffected

The addition of the LLS-II allows most any manufacturer's vertical break disconnect switch to be converted into a switch capable of breaking load current, loop current, and line charging current as well as transformer magnetizing current interrupting, cable switching, and reactor switching. The switch ratings are not affected because the LLS-II interrupter is out of the circuit except during the opening stroke of the disconnect switch.

### LLS-II 245 kV Design

A composite voltage limiter, connected electrically in parallel with the interrupter, limits the recovery voltage across the interrupter.

### Key Advantages

- ❑ Single gap interrupter with puffer action provides disturbance-free switching for all loads
- ❑ 2000 full load operations means long life expectancy
- ❑ Visible dielectric indication provides confident switching and enhanced personnel safety
- ❑ Fully pressurized shipment eliminates the need for field filling
- ❑ Full rated device prevents switching sequence errors
- ❑ Southern States 5-year warranty promises trouble-free performance

**Southern States, LLC 30 Georgia Avenue Hampton, GA 30228 phone: 770-946-4562**  
**fax: 770-946-8106 e-mail: [psdsales@southernstatesLLC.com](mailto:psdsales@southernstatesLLC.com) website: [www.southernstatesLLC.com](http://www.southernstatesLLC.com)**

**The Quality Name in High Voltage Switching**