

Last Update: Novemver 17 2017 **Items in red are ready for use, but need to be welded to 10" flanges**

Unit	QTY	Type	Condition	Location	Status
1	1	R30 black	Welded to 10" flange	Installed in GTS 350kV gun	Operational routinely to 300-350kV
2	1	R30 black	Welded to 10" flange	GTS control room shelf	Unit arced at 360kV in 2015, slower conditioning or lower current trip limit likely needed at the time. Now on display with dummy ball electrode
3	1	R30 black	Welded to 10" flange	TL1137	Arced at 230kV during HV conditioning, no apparent reason other than faulty product. Removed from UITF 350kV gun.
4	1	R30 black	Welded to 10" flange	TL 1137	Seems it has been used, likely one of the too low resistance batch of 5 units
5	4	R30 black	Virgin	EEL 117	Batch of 5 with too low resistance, in boxes
<b>6</b>	<b>1</b>	<b>R30 black</b>	<b>Virgin</b>	<b>EEL 117</b>	<b>Belong to the original batch of 5 with ideal resistance, likely units 1-3 belong to this batch. In boxes</b>
<b>7</b>	<b>1</b>	<b>R30 black</b>	<b>Welded to 10" flange</b>	<b>TL 1137</b>	<b>Waiting to be leak checked for use in 350kV gun</b>
8	1	R30 white	Welded to 10" flange	TL 1137 still in 350kV gun	Arced at 160kV, likely bad cable that was re-used after intial arcing with unit #3. Still installed in 350kV gun with Yan's shed electrode design.
9	1	R30 white	Welded to 10" flange	GTS cabinet	Zr coated, resistance too low, spiral cut, still resistance too low
10	1	R30 white	Cut from 10" flange	Bubba's work space	Zr coated, arc damaged
11	1	R30 white	Cut from 10" flange	EEL 117	Zr coated, resistance too low, spiral cut, still resistance too low
12	1	R30 white	Not welded to ring, just	EEL 117	Arc damage
<b>13</b>	<b>1</b>	<b>R30 white</b>	<b>Virgin</b>	<b>EEL 117</b>	<b>In box</b>
<b>14</b>	<b>1</b>	<b>R28 black</b>	<b>Welded to 10" flange</b>	<b>UITF cave</b>	<b>Installed in CEBAF 200kV gun upgrade with Gabriel's electrode design. Conditioned to 216 kV Summer 2017. Demonstrated 365kV with dummy ball electrode in GTS. Ran 200keV beam UITF January 2018.</b>
<b>15</b>	<b>1</b>	<b>R28 black</b>	<b>Virgin</b>	<b>GTS control room shelf</b>	<b>On display with Gabriel's electrode-shed design Al prop form Machine shop</b>
<b>16</b>	<b>1</b>	<b>R28 black</b>	<b>Virgin</b>	<b>EEL 117</b>	<b>On some sort of mount, probably used for John's tests in SF6</b>
<b>17</b>	<b>2</b>	<b>R28 black</b>	<b>Virgin</b>	<b>EEL 117</b>	<b>in boxes</b>
18	1	R28 white	Welded to 10" flange	CEBAF injector	Old insulator design, operational in 130kV CEBAF gun
19	1	R28 white	Welded to 10" flange	EEL 117	Old insulator design, installed in HVTS
20	1	R28 white	Welded to 10" flange	EEL 117	Old insulator design, in cabinet
21	1	R28 black	Virgin	EEL 117	In cabinet