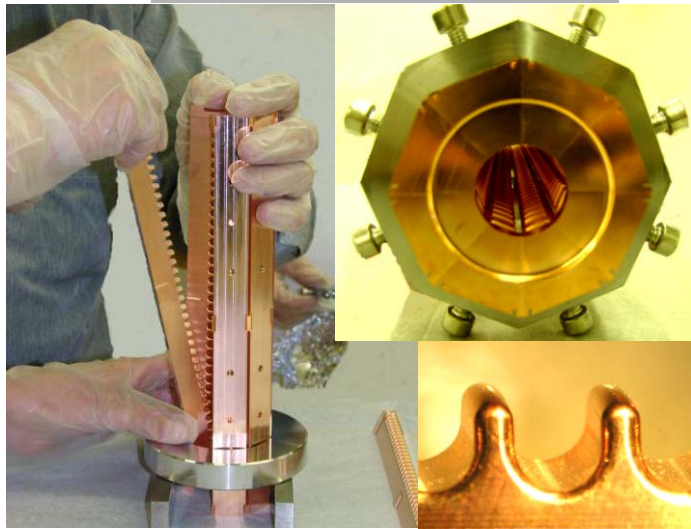
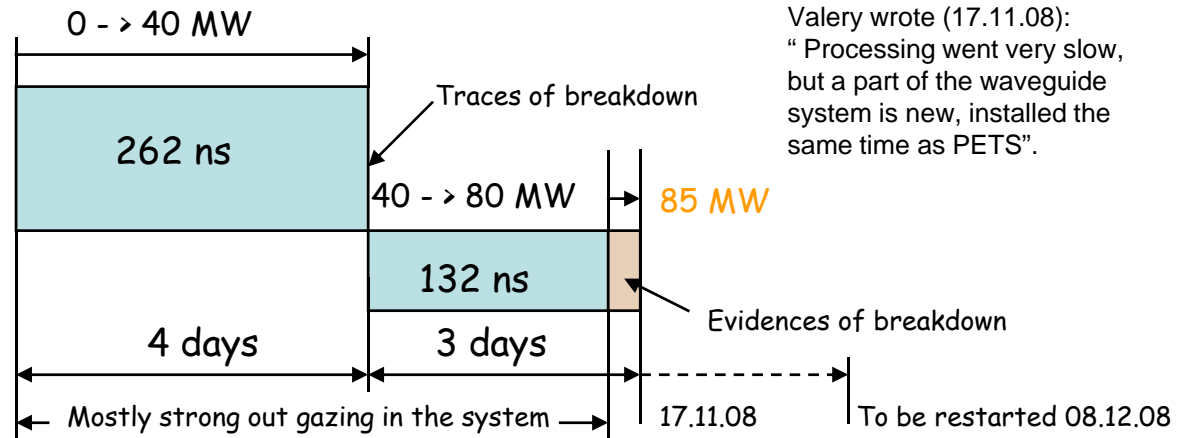


CLIC Power Extraction and Transfer Structure (PETS) high power tests at SLAC

Assembly of the eight PETS bars.



	CLIC target	Processing status (17.11.08)
RF power. MW	135	85
Pulse length, ns	240 (170 flat top)	132 flat top

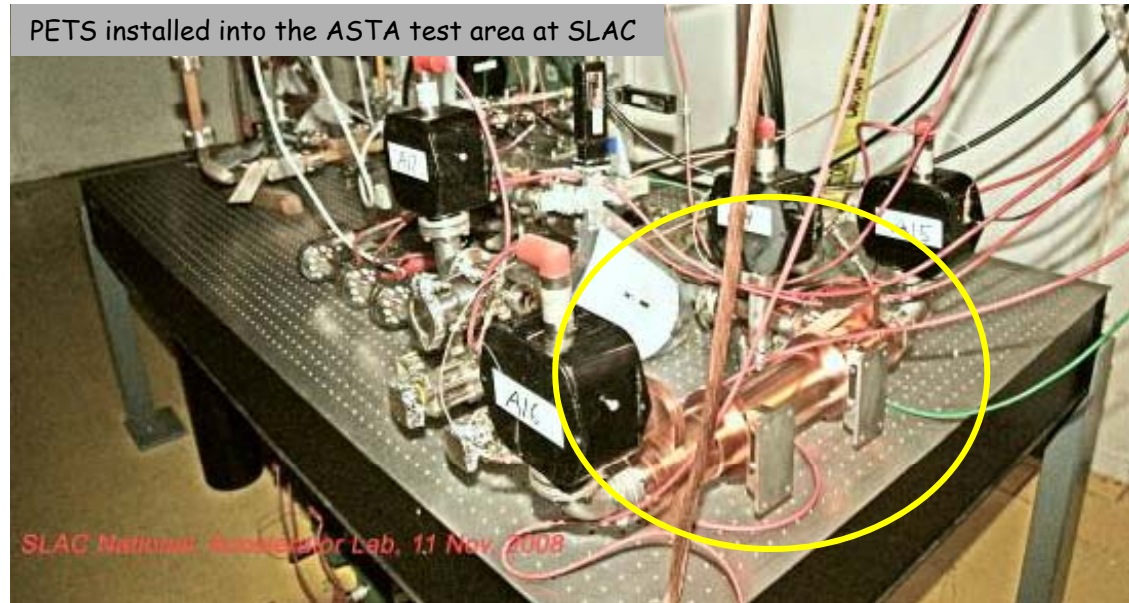


Valery wrote (17.11.08):
 " Processing went very slow,
 but a part of the waveguide
 system is new, installed the
 same time as PETS".

11.424 GHz PETS ready



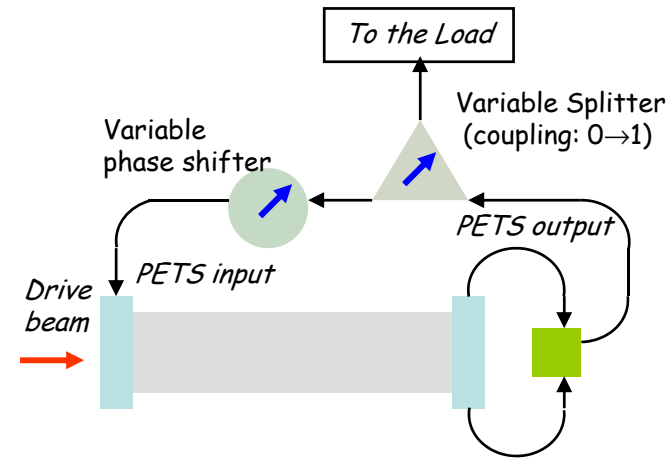
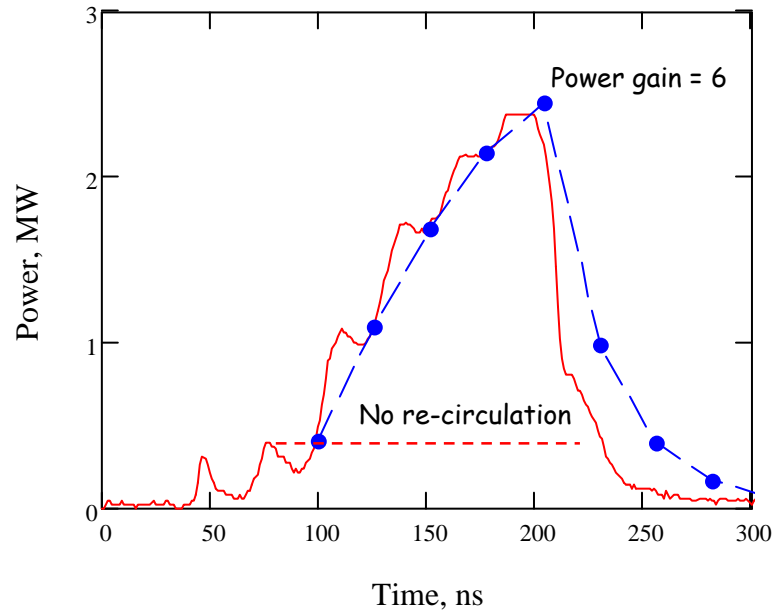
PETS installed into the ASTA test area at SLAC



SLAC National Accelerator Lab, 11 Nov 2008

CLIC Power Extraction and Transfer Structure (PETS) high power tests at CERN (TBTS)

The first RF 12 GHz power generation from the PETS in re-circulation regime



Input for calculations:
~Measured: $I = 1.18 \text{ A}$
Coupling = 0.82
Fitted: Phase error = 40 degrees

Similar to SLAC, the conditioning of the system accomplished with heavy out gazing.



CLIC Power Extraction and Transfer Structure (PETS) high power tests at CERN (TBTS)

Short term tests proposal: without changing the system settings (attenuator and phase shifter), to increase the current to the nominal value of 3.5 A and pulse length up to 300 ns.

