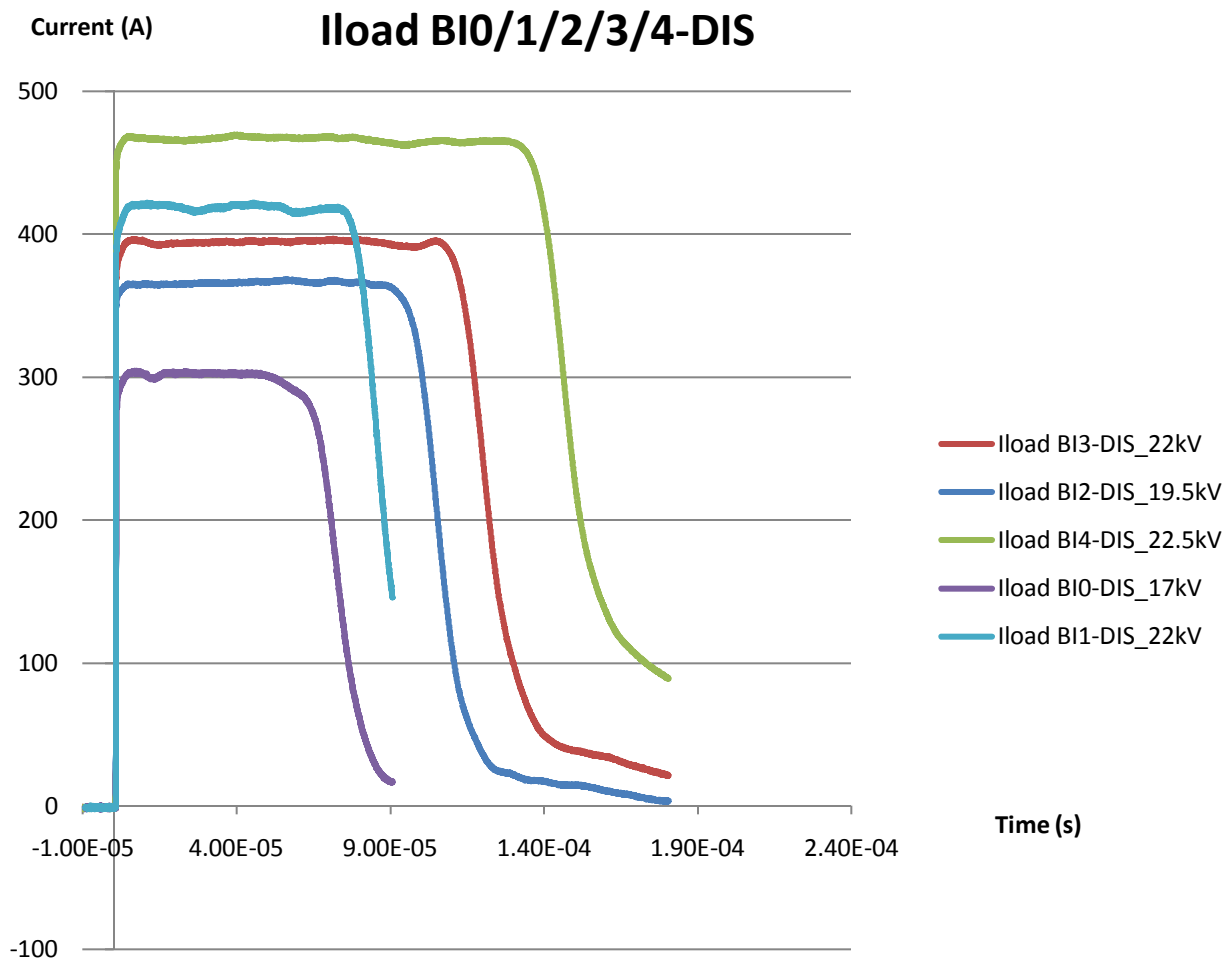


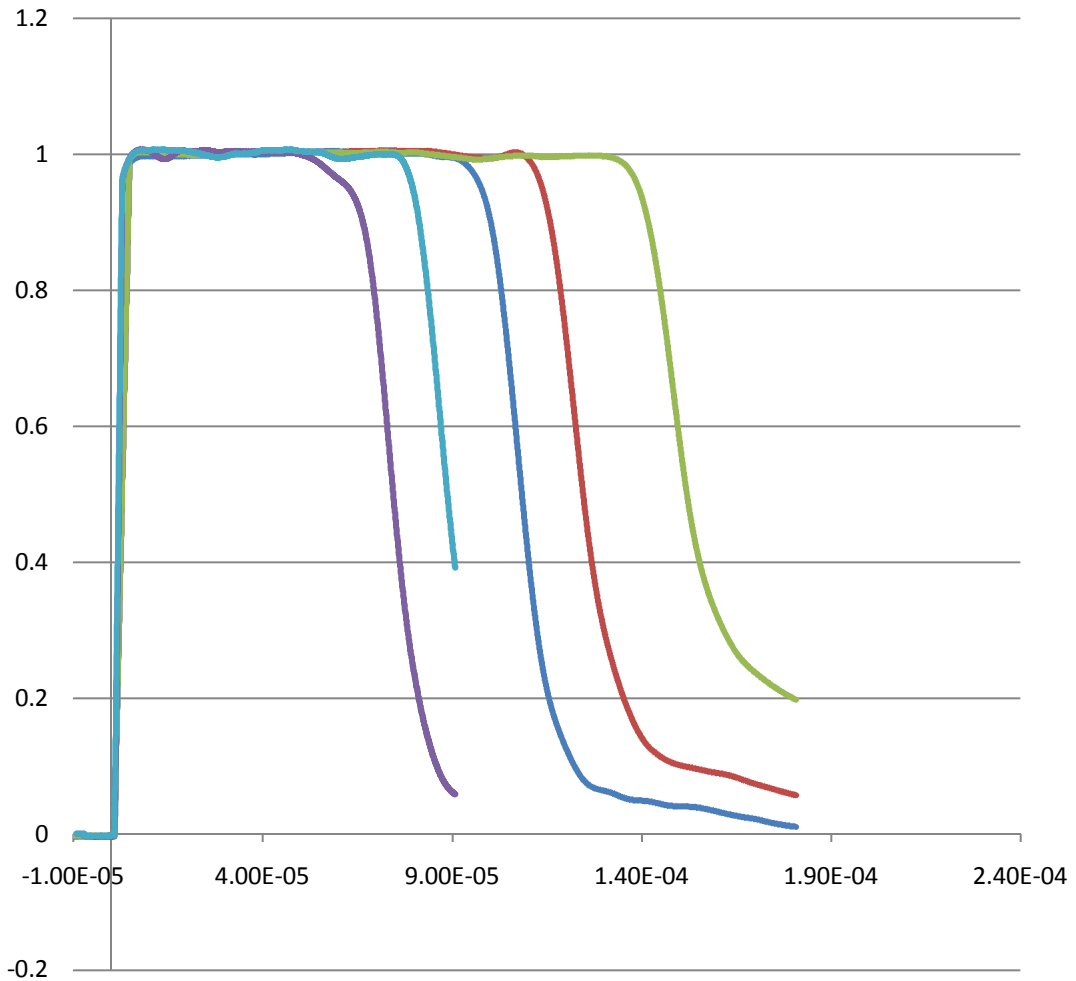
Current BI_DIS & Linac 4 Generators (Comparison)		
	Current	Linac 4
Nbr Generators	5	5
Pulses Length	BI0 ≈ 65 μs BI1 ≈ 75 μs BI2 ≈ 95 μs BI3 ≈ 110 μs BI4 ≈ 140 μs	≈ 20 μs ? ≈ 120 μs ≈ 220 μs ≈ 320 μs ≈ 420 μs
Rise Time	≈ 100 ns (Thyratron CX1159A/1)	≤1μs (1) if Stack GTO (Price, Provision)
PFN Impedance	25Ω	25 OR 12.5Ω Depending on the Configuration, Price & Size !
Ripple	≤1%	≤2% pp
Period	1.2 ms	900 ms or 600 ms (Charger systems consolidation)
Switch	1 Main/Generator (Cst pulse length)	1 Main/Generator (Cst pulse length)
Voltage	30 kV (max)	30 or 15 kV (max)

(1) also depending on the Voltage



BI_DIS linac4
Project

Current (%) Iload BI0/1/2/3/4-DIS (Normalised)

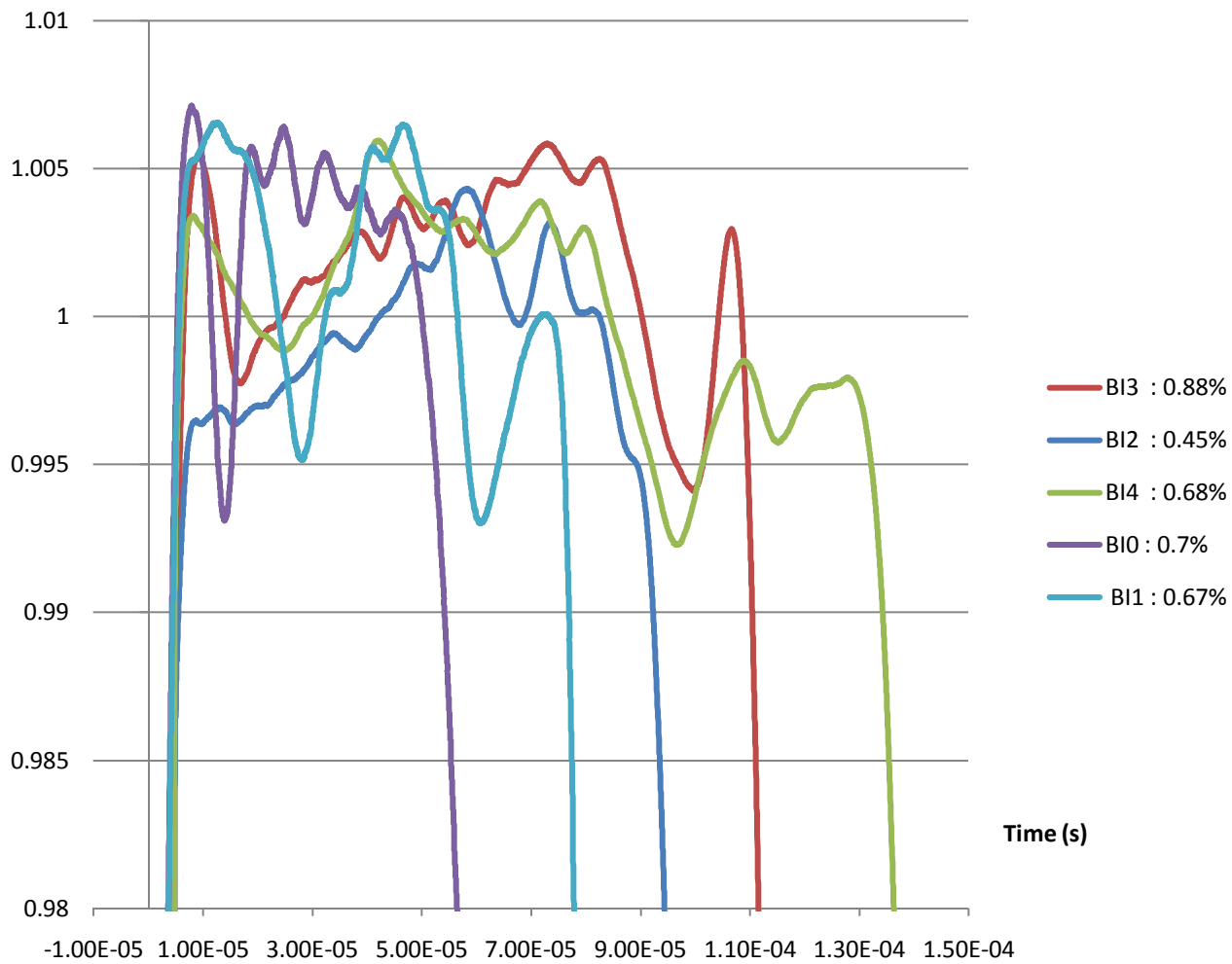


- Iload BI3-DIS_22kV
- Iload BI2-DIS_19.5kV
- Iload BI4-DIS_22.5kV
- Iload BI0-DIS_17kV
- Iload BI1-DIS_22kV

Time (s)

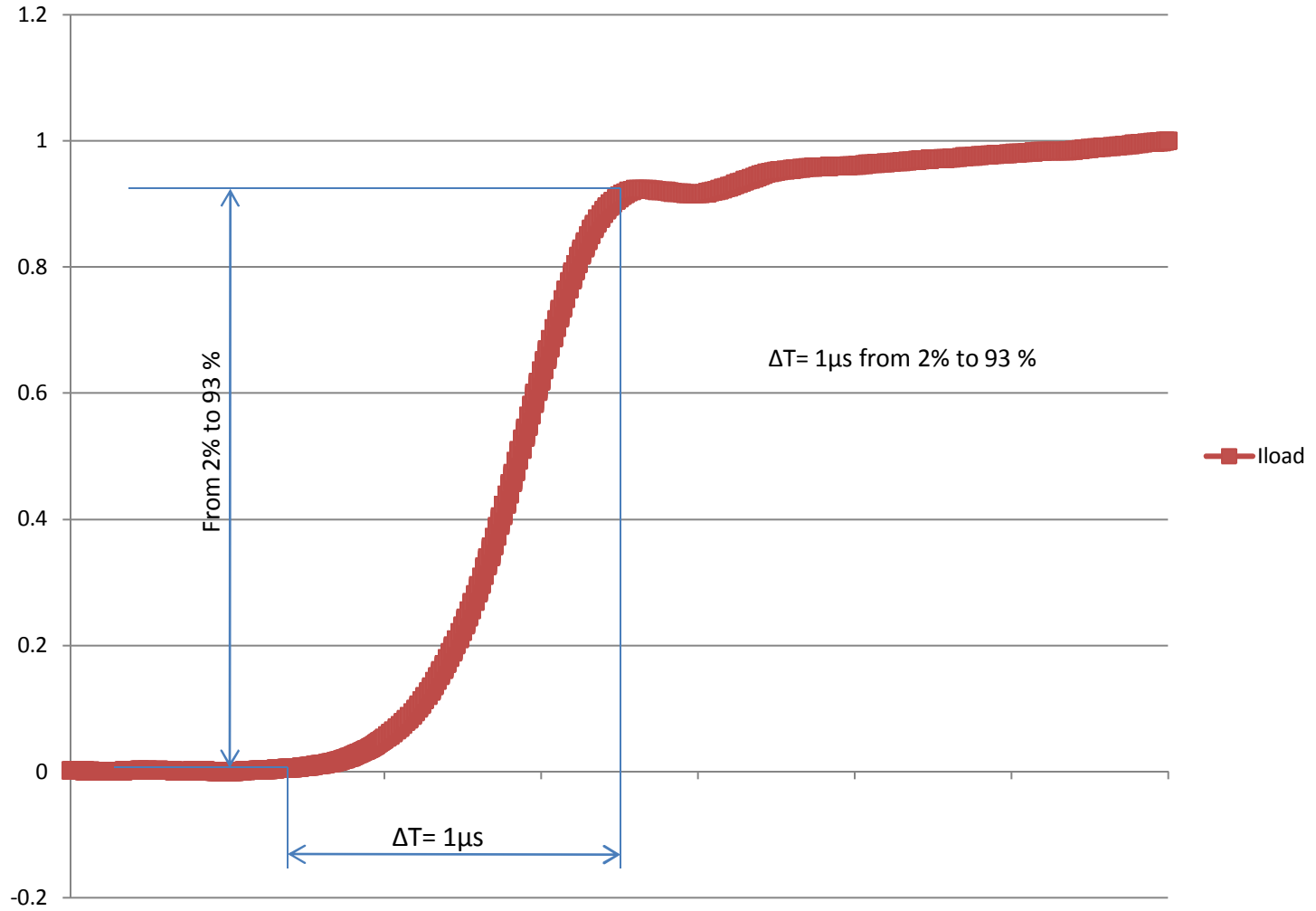
BI_DIS linac4
Project

Current (%) Iload BI0/1/2/3/4-DIS (Normalised)



BI_DIS linac4
Project

GTO- MG-SC-20kV (Normalised)



		BI.DIS	BI.SMV	BS
Deflection angle	mrاد	4.3	170	66
Integrated field	mTm	8.2	324	126
Gap field	mT	23.1	337	340
Vertical beam acceptance	mm	98	32	62
Gap width	mm	50	70	130
Magnetic length	Mm	354	960	370
Peak current	kA	0.95	18.3	10.9
Magnet inductance	μH	0.9	1.3	3.6
Magnet resistance	mΩ	0.03	0.1	0.08
Number of turns		1	1	2
Repetition rate	Hz	1.11	1.11	1.11
Rise / Fall time		1 μs		~3 ms
Flat Top duration		420 μs	100 μs	~2 ms