ALPHA Program Shot Guide

Parameter Scans

Coil On or Not On the Glass tube

Set1/Set 2 vs Set 8

Coil On, But Fired or Not Fired

Set 8 vs Set 9/Set 10

Gas Delay Scan (The smaller the time, the less gas that is injected into the plasma gun)

500us-Set 4 to 600us-Set 3 to 700us Set 5

Stuffing Flux Scan (Increasing stuffing flux is related to overall increase of INITIAL magnetic field)

1mWB-Set 2 to 1.3mWb-Set 6 to 1.5mWb-Set 7

Set 1

123016

No Coil

Shots 1-100

Set 2

010417

No Coil

Shot 1-102

Set 3

010517

No Coil

New Gas, 600us Delay

Shots 1-51

Set 4

010517

No Coil

New Gas, 500us Delay

Shots 52-75

Set 5

010517

No Coil

New Gas, 700us Delay

Shots 76-100

Set 6

010617

No Coil

1.3mWb Stuffing

Shots 20-40

Set 7

010617

No Coil

1.5mWb Stuffing

Shots 41-55

Set 8

011617

Coil On, Only Switches Fired

Shots 10-60

Set 9

012317

Coil on and Fired, 25kV

Shots 13-23

Set 10

012417

Coil on and Fired, 25kV

Shots 9-84