

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	2/17/2023	2-10-2023						2-21-2023							
2			Run description:	FRC/RMFO														
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)	3.2e-7			2.7e-5			2.9e-7								
6			SEC Slow Baratron (T)	1.0007			1.0005			.0006								
7			CC Slow Baratron (T)	-1.003			1.003			-1.006								
8			RMF frequency & phase	1.8 kHz														
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs														
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made														
11			Time	12:40			1:32			10:07	10:14		10:14.50	10:29	10:31	10:34	10:50	11:07
12			Magnapower L-2 Coils I (A)	153			154			154	151		151	151		151	150	11:30
13			Big Blue L-2 Coils I (A)	180			179			180	172		171	171		171	168	
14			Nozzle coils I (A)	102			101			101	100		100	100		100	100	
15			SEC IG (T)															
16			SEC Slow Baratron (T)	.0013			.0023			.0018	.0016		.0015					
17			CC IG (T)															
18			CC slow Baratron (T)	.315			.678			.322	.485		.431					
19			FEC IG (T)	8.2			1.6			9.0	11		11					
20			FEC FB (T)	c-6			c-5			c-6	c-6		c-6					
21			Ta paddle voltage															
22			Main valve	C			C			C								
23			Navigator valve	C			C			C								
24			End turbo valve	C			C			C								
25			Gases/feed location/sccm	H <sub>2</sub> /500			H <sub>2</sub> /500			H <sub>2</sub> /500								
26			PV-10 (V)															
27			Pulse A to/Δt															
28			B to/Δt															
29			CC Pressure (mT)	Pb														
30			(Fast Baratron)	Pa														
31			170 GHz dia (mV)/IM freq															
32			Glassman High Voltage (kV)															
33			RMFO system main SRS															
34			Pulse width (ms)															
35			Time between pulses (s)															
36			Frequency: Center(MHz)/Span(KHz)															
37			Phase °															
38			Pa															
39			Pf (kW)															
40			ΦM or % reflected															
41			Vf FEC probe	2.88			2.87			2.82								
42			V CC Probe	2.26			1.78			2.45								
43			Helicon Pf/Pr															
44			Helicon (SRS/mod)	2.26			2.26			2.26								
45			Comments/changes:	for Δφ = π/2, n <sub>e</sub> = 2.1e12 cm <sup>-3</sup> for 16-cm dia plasma														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			<b>Date:</b>	4/21/2023														
2			Run description:	FRC/RMFO	LIAM	COILS	STABLE	and										
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)															
6			SEC Slow Baratron (T)															
7			CC Slow Baratron (T)															
8			RMF frequency & phase															
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs														
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made														
11			Time	11:37														
12			Magnapower L-2 Coils I (A)	153														
13			Big Blue L-2 Coils I (A)	16477														
14			Nozzle coils I (A)	160														
15			SEC IG (T)		12:05	50												
16			SEC Slow Baratron (T)	0010														
17			CC IG (T)		12:07	0												
18			CC slow Baratron (T)	1240														
19			FEC IG (T)	80		12:08	30		130	183								
20			FEC FB (T)	01														
21			Ta paddle voltage		12:14	0		100	159									
22			Main valve	C														
23			Navigator valve	0		112	50											
24			End turbo valve	0														
25			Gases/feed location/sccm	Ar H2	12:19	0		150	218									
26			PV-10 (V)	12 SEC														
27			Pulse A to/Δt		12:23	50												
28			B to/Δt															
29			CC Pressure (mT)	Pb	12:28	0		150	217									
30			(Fast Baratron)	Pa														
31			170 GHz	dia (mV)/IM freq														
32			Glassman	High Voltage (kV)														
33			RMFO system	main SRS														
34				Pulse width (ms)														
35				Time between pulses (s)														
36				Frequency: Center(MHz)/Span(KHz)														
37				Phase °														
38				Pa														
39				Pf (kW)														
40				ΦM or % reflected														
41			✓ F	FEC probe														
42			✓ F	CC Probe														
43				Helicon Pf/Pr	2.271													
44				Helicon (SRS/mod)	1.22													
45			Comments/changes:	for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma														