

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1				Date:	1-3-2023													
2				Run description:	FRC/RMFO RMF, X-Y, pulse location, check on 12/22/2022													
3				Base pressures: SEC IG (T)														
4				CC IG (T)														
5				FEC IG (T)	3.1e-7													
6				SEC Slow Baratron (T)	+1.0000													
7				CC Slow Baratron (T)	+1.002mT													
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 -> ART00LM9 -> 8KD -> 200 kW home made													
11				Time	11:04	11:20	11:51	12:10	12:06	12:10	12:14	12:35	12:52	1:07	1:16	1:39	1:50	1:58
12	Magnapower	L-2 Coils I (A)			200	201				190	1	190	190	190	190		190	
13	Big Blue	L-2 Coils I (A)			200	202				190		194	193	193	193		194	
14		Nozzle coils I (A)			100	101				100		102	102	101	101		101	
15		SEC IG (T)																
16		SEC Slow Baratron (T)			-0.012	-0.011	-0.012					0.0013	0.0012			0.0013		
17		CC IG (T)																
18		CC slow Baratron (T)			286	280	274	296	280		304	301	298	292	297	294		
19		FEC IG (T)			8.1	8.1	7.4	7.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
20		FEC FB (T)			e-6	e-6	e-6	e-5	e-5	e-5	e-5	e-5	e-5	e-5	e-5	e-5		
21		Ta paddle voltage																
22		Main valve			C													
23		Navigator valve			q													
24		End turbo valve			q													
25		Gases/feed location/sccm			A1/SEC													
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)			10kV	204.3A	15.2V	FID										
33	RMFO system	main SRS				10.11	1.5	1.6		1.64	1.64	1.65	1.65	1.65	1.65	1.65	1.65	1.75
34		Pulse width (ms)			6	1.217	6			6	6	6	6	6	6	6	6	
35		Time between pulses (s)			1	1.4	(22kW)	1		1	1	1	1	1	1	1	1	
36		Frequency: Center(MHz)/Span(KHz)			480/6	480	1	574		1.8018	1.8018	1.8018	1.8018	1.8018	1.8018	1.8018		
37		Phase °																
38		Pa																
39		Pf (kW)																
40		ΦM or % reflected																
41		FEC probe			2.57	2.82						2.74	2.74	2.74	2.74	2.75		
42		CC Probe			335	390						335	335	335	335	390		
43		Helicon Pf/Pr																
44		Helicon (SRS/mod)			1.20	1.26												
45		Comments/changes:			for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma													

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	1-3-2003														
2			Run description:	FRC/RMfo	x-ray RMF halo. mod													
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	Recentered 4-turn MC coil													
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made	antennas: 2-turn; cable: RG-226, 60" long													
11			Time	14:12.8	14:13.7	14:54	3:30.7	3:11.9	3:33.1	3:13.4	3:23.7							
12	Magnapower	L-2 Coils I (A)	190	150	206	231	170			170	170							
13	Big Blue	L-2 Coils I (A)	144	130	204	232	172			167								
14		Nozzle coils I (A)	101	101	101	101	101			101	101							
15		SEC IG (T)																
16		SEC Slow Baratron (T)																
17		CC IG (T)																
18		CC slow Baratron (T)																
19		FEC IG (T)																
20		FEC FB (T)																
21		Ta paddle voltage																
22		Main valve																
23		Navigator valve																
24		End turbo valve																
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27		Pulse A to/Δt																
28		B to/Δt																
29		CC Pressure (mT)																
30		(Fast Baratron)																
31		170 GHz																
32		Glassman																
33		High Voltage (kV)																
34		RMFo system																
35		main SRS																
36		Pulse width (ms)																
37		Time between pulses (s)																
38		Frequency: Center(MHz)/Span(KHz)																
39		Phase °																
40		Pa																
41		Pf (kW)																
42		ΦM or % reflected	</															