

$$\begin{array}{r} 10^6 \times 10 \\ n \approx 1.5A \\ 10^7 \times 10^6 \end{array}$$

| Comments/changes: | $\Delta\phi = \pi/2$ , $n_e = 2.1e12$ cm <sup>-3</sup> for 16-cm dia plasma |
|-------------------|---|
|                   |   |

5 — Jais

A simple line drawing of a person from the waist up, sitting at a desk and writing with a pen. The person's head is tilted down towards the desk. There are some scribbles representing papers or writing on the desk surface.

ADLC

sheet \_\_\_ of \_\_\_

| A  | B | C                                | D  | E        | F        | G        | H        | I | J | K | L | M | N | O | P | Q | R |
|----|---|----------------------------------|--|----------|----------|----------|----------|---|---|---|---|---|---|---|---|---|---|
| 1  |   | Date:                            | 2020/01/18   |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 2  |   | Run description:                 | FRC/RMFO   | 112      | 112      |          |          |   |   |   |   |   |   |   |   |   |   |
| 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 -> ARI00LM9 -> 8KD -> 200 kW home made     |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 11 |   | Time                             | 2:45   | 2:59     | 3:05     | 3:17     | 3:40     |   |   |   |   |   |   |   |   |   |   |
| 12 |   | Magnet power                     | L-2 Coils I (A)  | 300      | 300      | 300      | 300      |   |   |   |   |   |   |   |   |   |   |
| 13 |   | Big Blue                         | L-2 Coils I (A)  | 300      | 300      | 300      | 300      |   |   |   |   |   |   |   |   |   |   |
| 14 |   | Nozzle coils I (A)               | 104  | 104      | 104      | 104      | 104      |   |   |   |   |   |   |   |   |   |   |
| 15 |   | SEC IG (T)                       |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 16 |   | SEC Slow Baratron (T)            | 10020.23   | 10020.23 | 10020.23 | 10020.23 | 10020.23 |   |   |   |   |   |   |   |   |   |   |
| 17 |   | CC IG (T)                        | 1512   | 1512     | 1512     | 1512     | 1512     |   |   |   |   |   |   |   |   |   |   |
| 18 |   | CC slow Baratron (T)             | 1512   | 1512     | 1512     | 1512     | 1512     |   |   |   |   |   |   |   |   |   |   |
| 19 |   | FEC IG (T)                       | 2.0  | 2.0      | 2.0      | 2.0      | 2.0      |   |   |   |   |   |   |   |   |   |   |
| 20 |   | FEC FB (T)                       | 2.4  | 2.4      | 2.4      | 2.4      | 2.4      |   |   |   |   |   |   |   |   |   |   |
| 21 |   | Ta paddle voltage                |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 22 |   | Main valve                       |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 23 |   | Navigator valve                  |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 24 |   | End turbo valve                  |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 25 |   | Gases/feed location/sccm         | H <sub>2</sub> /SE   |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 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 |   | P <sub>F</sub> (kW)              |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 40 |   | ΦM or % reflected                |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 41 |   | FEC probe                        |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 42 |   | CC Probe                         |  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 43 |   | Helicon Pf/Pr                    | 44/6   |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 44 |   | Helicon (SRS/mod)                | 0.6  |          |          |          |          |   |   |   |   |   |   |   |   |   |   |
| 45 |   | Comments/changes:                | for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma                    |          |          |          |          |   |   |   |   |   |   |   |   |   |   |