

- Ring timing requirements
 - General
 - Mode information
 - Time stamping status and analog dataaquisition with cycle number
 - DC Power supplies
 - Low ripple
 - Phase of AC line not critical
 - Timed current/voltage settings/readings

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- Injection power supplies
 - No start charge required (always on)
 - Injection painting function
 - Timed voltage and current readings

 - Extraction power supplies
 - Synchronize extraction with abort gap
 - Initiate waveform data acquisition
 - Start charge occurs shortly after extraction

- Ring Instrumentation
 - Synchronize ring data acquisition to a turn within the cycle
 - Synchronize within a turn
 - Timestamp data with cycle number
- RF
 - Turn on High voltage