

# Plasma fueling using LDGIS

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## Setup Lower Dome Gas Injection System for plasma fueling

- LDGIS is similar to HFS injector
- Follow the path of HFS fueling development and use CHI experience - XMP or XP?
- Calibrate average flow rate vs plenum pressure
- Add LDGIS source to LFS fueled 0.8 MA ohmic plasmas
- Attempt to fuel plasma with LGDIS alone
- Try IWL, LSN, DND magnetic configurations
- Determine fueling efficiency  $\eta = \frac{N_i(t)}{N_p(t)}$  and  $\eta = \frac{dN_i / dt}{\Gamma}$