

# Advanced PFC Development Needed to Explore NSTX Capabilities



- **Upgraded PFC's Would Provide**

- Long pulse high power divertor tiles
- Reduced decomposition of Center Stack @ Startup & CSL
- Reduced low-z evolution with pulse length
- Lower atomic to geometric surface ratio (lower desorption/porosity)
- Lower CHI impurity generation

- **Some Candidate PFC's**

- High performance CFC's
- Tungsten brush technology (SNL)
- B<sub>4</sub>C CVD coatings on graphite (TRINITI)