

# METALLIC IMPURITIES: OPERATIONAL ISSUES

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# POSSIBLE CAUSES

- We have done more of all of the following this run period
  - LITER operation
  - RWM Coil operation
  - Early NBI ( $I_p < 350$  kA) and larger R
  - Small outer gap
- Do ELM characteristics play a role?

# RESPONSE

- Need to identify the cause of the observed melting and higher metallic impurities. (Database?)
- Need to develop diagnostic tools to quickly identify problematic operational scenarios when they occur.
- Develop strategy to avoid damage.