

Divertor/Limiter Planning

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NCSX Project Meeting
July 12-13, 2000

Power and Particle Handling

- The PVR committee will look for a credible power and particle handling design.
- An initial survey indicates the road to a design will be bumpy (space-flexibility).
- The P&P configuration may impact the coils and vacuum vessel.
- We need to proceed expeditiously to develop a P&P configuration including the upgrade impacts.

NCSX Divertor/Limiter Development

- Tentative requirements for the Divertor/Limiter have been established.
- A working group is being organized.
- A plan to support the PVR is being developed.
- The proposed plan is for parallel, but connected, P&P handling configuration/ requirements development for a range of P&P configuration options.

Proposed Plan

- Establish the magnetic characteristics of the edge to support Divertor/Limiter development.
- Develop a range of configurational options by the end of September.
- Down select between the options at that time.
- Revise the physics requirements at that time.
- Develop and integrate a narrow range of options into the overall configuration for the PVR.

Options

Limiter

- Rail (toroidally local)
- Partial Belt (toroidally extended)
- Pumped (probably toroidally local)

Divertor

- Helical (follows shape)
- Island (follows iota)