

## Appendix A – Charge to the Physics Validation Review Panel

- A) What is the Scientific and/or Technical Merit of the Proposed Research? In particular,
- Does the proposed experiment address important problems in plasma science, plasma technology, fusion energy science, or fusion energy technology?
  - How does the proposed experiment compare with other research in its field, both in terms of scientific and/or technical merit and originality?
  - What is the likelihood that it will lead to new or fundamental advances?
- B) How appropriate is the proposed Method or Approach? In particular,
- Are the physics requirements for the proposed facility appropriate for the mission?
  - Has a sound physics basis been established for developing the conceptual design?
  - Does the proposed research employ innovative concepts or methods?
  - Does the applicant recognize significant potential problems and consider alternative strategies?
- C) Are the project personnel, management arrangements, research environment and institutional support adequate to carry out the proposed program? Does the proposed experiment take advantage of unique facilities and capabilities and/or make good use of collaborative arrangements?
- D) How reasonable, appropriate and adequately defined is the proposed budget?
- E) Are the plans for developing the conceptual and engineering designs and for finalizing cost and schedule appropriate?
- F) How well does the proposed research address the FESAC 10-Year goal to determine the attractiveness of a Compact Stellarator?