TOPICAL AREAS FOR *NT/F* ARTICLES

For the convenience of the reader and potential authors, the current listing of topical areas used to categorize articles submitted to *Nuclear Technology/Fusion* (*NT/F*) is summarized here. While some articles will cut across categories, this listing provides a reasonably complete view of areas covered in *NT/F*. However, it is the intent of the editorial staff to periodically update this listing, so comments by readers, authors, and reviewers are always welcome.

Plasma Engineering—Represents applied plasma physics, e.g., fusion burn analysis, alpha transport, impurity and neutral transport, and plasma dynamics and control.

Blanket Engineering—Includes thermal hydraulics, neutronics, mechanical features, performance evaluations, activation and maintenance considerations, tritium-breeding concepts and evaluation, and liquid-metal technology.

Materials Engineering—Includes traditional materials engineering and also radiation damage effects.

Fusion Fuel Cycles—Concepts and analysis of various fusion fuel cycles, including both deuterium-tritium and advanced fuels.

Energy Storage, Switching, and Conversion—Ranges from mechanical to electromagnetic energy storage and includes direct conversion of fusion energy.

Shielding—Includes both personnel and magnet shielding, streaming, and effects on subsystems such as neutral beam injectors.

First-Wall Technology—Design and evaluation of first wall, plasma-wall interactions, protective coatings, and thermal/mechanical performance.

Inertial Confinement Fusion (ICF) Targets—Target concepts and burn evaluation and driver-target coupling efficiency.

ICF Driver Technology—Drivers include lasers, electron and ion accelerators, and generation and transport of beams.

ICF Chamber Engineering—Includes first-wall protection schemes, shock and fatigue analysis, thermal hydraulics, and time-dependent neutronics.

Divertor Systems—Includes both divertor concepts and evaluation of divertor operation, e.g., plasma flows and impurity control.

Magnet Systems—Design, performance, and concepts for both conventional and superconducting coil systems; also associated cryogenic systems.

Plasma Heating Systems—Includes heating systems ranging from ohmic heating to radio frequency, neutral beams, relativistic electron beams, heavy ions, etc.

Tritium Systems—Breeding, separation, handling, and storage aspects.

Vacuum Systems—Both cryogenic panels and various mechanical/ion pumps; also system performance and requirements.

Maintenance—Operational features and remote handling considerations.

Experimental Devices—Engineering design and operation of fusion experiments, diagnostics.

Fusion Reactors—Conceptual design studies of reactors and new reactor concepts.

Nonelectrical Applications—Includes hybrids and fusion driven synthetic fuel factories.

Economics—Projections and comparisons for both subsystems and reactors, electrical and nonelectrical.

Safety/Environmental Aspects—Analysis of both subsystems (e.g., magnet safety) and overall plant safety.

Instrumentation and Data Handling—Control systems and automated methods for data collection, storage, and analysis.