(2) Performance Validation. DOE will pay for appropriate engineering consulting assistance to advise Showcase Demonstration teams on performance validation issues. Working jointly with individual teams, the consultants will assist and advise teams on the development and design of reliable experimental and performance measurement techniques so that the demonstration's costs and benefits can be validated. At the completion of each project an Independent Performance Validation report will be completed.

(3) Case Study Documentation and Dissemination. DOE will pay for the development and documentation of a comprehensive case history for each Showcase Demonstration, and will disseminate the case study results subject to team member's and independent performance validator's review and approval. Likewise, DOE will provide a compendium of Case Study Briefs.

(4) Access to Experts Group. Through the Oak Ridge National Lab, DOE has assembled an Experts Group of consultants on electric motor system optimization, specializing in high efficiency motors, variable speed drives, fans, blowers, and pumps. Reasonable access to the Experts Group will be provided to the teams to acquire technical assistance and advice.

(5) Participation in Showcase Demonstration Workshops. Team members will be invited to DOEsponsored workshops where all Showcase Demonstration teams will be provided the opportunity to exchange valuable information and to discuss common implementation experiences with industry counterparts. These workshops will also serve to inform participants of the latest available technology. The first workshop for the Showcases currently underway was held on June 27 and 28, 1995.

Benefits to the Government

The knowledge and experiences of the Showcase Demonstrations will be used in future DOE efforts to assist industry in replicating and implementing efficient electric motor systems. DOE intends that the long-term result of highlighting the exemplary and costeffective benefits of the Showcase Demonstrations is the accelerated and increased market penetration of efficient electric motor systems within U.S. industry. The deployment of efficient industrial electric motor systems will contribute significantly to greater energy efficiency, reduced primary/source energy consumption, deferred new power generation capacity, improved industrial productivity and

competitiveness, and enhanced environmental protection for the United States.

Eligible Project Teams

Only industrial "end-users" are eligible to submit project proposals. "End-users" are defined as those companies who own and operate the facility where the demonstration will take place. In addition to end-user participation, a project team may involve other partners including, but not limited to, motor and drive manufacturers, original equipment manufacturers (OEMs), distributors, utilities, energy service companies, state energy offices, research institutions, etc. End-user proposers are encouraged to include such participation. Other nonend user entities are also encouraged to catalyze and support proposal submission by end-user project teams.

Industry Showcase Demonstration Project Team Obligations

Each proposing project team will themselves provide all the funding to support necessary design, equipment specification, purchase, and installation for the efficient electric motor systems to be demonstrated, along with all the measurement equipment and instrumentation to validate and substantiate all claims of performance and benefits achieved.

Teams will provide DOE with sufficient data to substantiate and document the energy and environmental performance of the project and the economic benefit/cost of the result. Additionally, teams will provide appropriate information to DOE to allow for DOE contractors to perform an independent performance validation report and to prepare a comprehensive case study document. For activities within the Showcase Demonstration, DOE will respect all proprietary interests to which selected demonstration hosts are entitled. These activities will be addressed in the previously referenced Agreement between DOE and the project team.

Showcase Demonstration Team's Intellectual Property Rights

The Agreements to be signed by DOE and each MOTOR CHALLENGE Showcase Demonstration project team does not envision a commitment by the Participants to perform research and development. DOE's intellectual property policies will not apply to Participant's inventions because the work performed by the Participants in developing the demonstration projects for the MOTOR CHALLENGE Showcase Demonstrations are not wholly or partially funded by DOE. Therefore, rights to intellectual property developed by Participants and demonstrated by the MOTOR CHALLENGE Showcase Demonstrations will not vest in the United States Government. Language to this effect will be incorporated into any resulting Agreement.

Proposal Submission Format

The proposals must include the following sections at a minimum:

Section 1—Project Abstract

A brief abstract of the project should include:

(a) Project title;

(b) Brief narrative describing the project (1 or 2 sentences);

(c) Proposing industrial end-user company;

(d) Management and technical point of contact of end-user company (name, title, address, phone, fax);

(e) Supporting team member companies, organizations, and points of contact (title, address, phone, fax);

(f) Facility name and location where the demonstration is proposed.

Section 2—Description of the Project

(This section should take no more than two pages) A description of the industrial application to include the kind of efficient electric motor system [drive, motor, and load] the proposed project is intended to address. Estimates of the energy, environmental, and economic costs and benefits that might reasonably be expected to result from an assumed successful demonstration [relative to the present or conventional system], should be presented. Also, extrapolated costs and benefits of the demonstrated system if it were it to be replicated in other similar applications, within the proposer's corporate facilities should be estimated.

A description of the technical approach of how and where the demonstration will be implemented within the facility should be explained. Also, a description of the technique and methodology to be employed to measure and evaluate the performance of the demonstration should be provided.

The overall project cost should be estimated along with the approximate cost-share breakdown by all parties providing resources to the project. A project schedule should be included which addresses the following items:

- (a) Procurement
- (b) Installation
- (c) Start-up
- (d) Data acquisition
- (e) Final reporting