General Programmatic Terms and Conditions for the CLEANER: Project Office to Coordinate Network Activities Cooperative Agreement (NSF 05-549)

1. **Project Governance:** The Awardee will ensure that an efficient and effective project governing structure is in place throughout the award period to support all critical or significant project activities. Governing components of the CLEANER Coalition include:

    - Principal Investigator
    - Co-principal Investigators
    - Executive Director and staff
    - Director

    Committees in support of Project Governance

    - Executive Committee
    - Organizational Committee
    - Social Science Committee
    - Cyberinfrastructure Committee
    - Education Committee
    - Sensor Committee
    - Science Plan Committee

2. **Governing Responsibilities:** The Awardee will ensure efficient and effective performance of all project responsibilities by the governing components throughout the award period. The Coalition will engage a broad-based network of individuals from University of Michigan, Howard University, Humboldt State University, Rensselaer Polytechnic Institute, Duke University, Texas A&M University, University of California Merced, Carnegie Mellon University, and Resources for the Future, who will serve as members of the Executive Committee for the completion of specific project deliverables. The Coalition is responsible for planning, operating, and managing the day-to-day activities of the CLEANER Project Office including, but not limited to:

    - Managing, staffing, allocating resources, and overseeing general operations of the Project Office in accordance with plans submitted to and approved by NSF;
    - Assuring that the responsibilities of the Project Office are met by a management team led by the Executive Director and as agreed to by NSF;
    - Notifying and gaining approval from NSF for changes to key personnel or substantive changes in the level of effort of key personnel;

- Establishing an Executive Committee, comprised of Co-chairs from six planning committees, which will meet regularly to provide oversight and integration of the Project Office activities;
- Coordinating and producing a strategic plan that consists of a science plan, and research and education plans that set forth a roadmap for CLEANER including, but not limited to, timelines and milestones, and the scope of facilities, resources, and research required.

3. **Reporting Requirements:** The Awardee will provide ad hoc and regular reports as designated by the NSF cognizant Program Official with content, format, and submission time line established by the NSF cognizant Program Official. The Awardee will submit all required reports via FastLane using the appropriate reporting category; for any type of report not specifically mentioned in FastLane, the Awardee will use the "Interim Reporting" function to submit reports. The Awardee shall coordinate receipt of reports from members and provide a consolidated version to NSF. Reports will include information related to critical actions undertaken to:

- Create a strategic plan that consists of a science plan, and research and education plans that set forth a roadmap for CLEANER including timelines and milestones, and the scope of facilities, resources, and research required;
- Establish the CLEANER advisory structure that will provide engineering and biophysical/social science leadership;
- Establish a committee to develop a community consortium;
- Define the Science Plan for the CLEANER focus in its initial operational phase;
- Develop a CLEANER cyberinfrastructure implementation plan;
- Identify and establish committees for continued refinement of the science plan, cyberinfrastructure needs, and network design;
- Coordinate with the CUAHSI consortium and link CLEANER with the Hydrologic Observatory initiative;
- Foster close interactions between existing and planned observing systems, including other appropriate NSF research initiatives;
- Work with NSF to develop a strategy for involving other relevant government agencies and private sector organizations as active partners;
- Develop education and outreach plans for the CLEANER program;
- Develop a strategy for incorporating socio-economic considerations in the CLEANER planning process and research agenda;
- Operate an interactive web site for communication with the community regarding CLEANER activities and planning.

In addition, the Awardee will submit the following on a timely basis, for NSF Project Officer review and approval:

- Quarterly Progress Reports, in the context of utilizing an annual set of goals and objectives and longer-range strategic milestones;

- Annual Cumulative Progress Report, summarizing and strategically analyzing the quarterly progress and including any needed revisions to the project plans described above.

4. **<u>Awardee Support of Ongoing Management and Oversight</u>:** The Awardee will ensure full commitment and cooperation among the governing structure components, and all project staff during all ongoing NSF project management and oversight activities. The Awardee will ensure availability of all key institutional partners during any desk or on-site review as well as timely access to all project documentation. Ongoing NSF management and oversight may include:

- Approval of members of the external advisory board and the six planning committees, technical services contractors, and consultants;
- Approval of changes in scope, schedule, or budget that differ from the major activities, key milestones and key outcomes contained in the proposal;
- Scheduled and unscheduled desk reviews and significant issues resolution;
- On-site and reverse site reviews; and
- Attendance at in-person and teleconferences regarding the CLEANER program.

5. Inter-agency and international activities related to CLEANER remain the responsibility of the NSF Program Officer and may not be undertaken by the CLEANER Project Office on behalf of NSF, except with the explicit approval of the NSF Project Officer, and an NSF Grants or Cooperative Agreements Official.