

## VII. TRANSITION FROM FY 2001 TO FY 2002

The following goals, which were presented in the FY 2001 Performance Plan, have been modified or removed from the FY 2002 Revised Final Performance Plan. The significance and rationale for changes or exclusion are discussed below.

### ANNUAL PERFORMANCE GOALS FOR NSF STRATEGIC OUTCOMES

**FY 2001 Performance Goal III-1a:** People Strategic Outcome -- Development of “a diverse, internationally competitive and globally-engaged workforce of scientists, engineers, and well-prepared citizens.”

**FY 2001 Performance Indicators:**

NSF is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement in one or more of the following indicators:

- Improved mathematics, science, and technology skills for U.S. students at the K-12 level, and for citizens of all ages, so that they can be competitive in a technological society.
- A science and technology and instructional workforce that reflects America’s diversity.
- Globally engaged science and engineering professionals who are among the best in the world.
- A public that is provided access to the benefits of science and engineering research and education.

**FY 2002 Performance Indicators:**

NSF’s performance is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement in the majority (4 of 7) of the following indicators:

- Development of well-prepared scientists, engineers or educators whose participation in NSF activities provides them with the capability to explore frontiers and challenges of the future;
- Improved science and mathematics performance for U.S. K-12 students involved in NSF activities;
- Professional development of the SMET instructional workforce involved in NSF activities;
- Contributions to development of a diverse workforce through participation of underrepresented groups (women, underrepresented minorities, persons with disabilities) in NSF activities;
- Participation of NSF-supported scientists and engineers in international studies, collaborations, or partnerships;
- Enhancement of undergraduate curricular, laboratory or instructional infrastructure; and
- Awardee communication with the public in order to provide information about the process and benefits of NSF-supported science and engineering activities.

**Explanation of change:** The set of performance indicators related to the People Goal has been expanded and modified to appropriately reflect the breadth of NSF activities. The criterion for successful performance was raised from significant achievement in at least one indicator to successful achievement in a majority of indicators.

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**FY 2001 Performance Goal III-1b:** After three years of support, over 80% of schools participating in systemic initiative programs will (1) implement a standards-based curriculum in science and mathematics; (2) further professional development of the instructional workforce; and (3) improve student achievement on a selected battery of tests.

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**FY 2002 Performance Goal III-1b:** After three years of NSF support, over 80% of schools participating in systemic initiative programs will (1) implement a standards-based curriculum in science and mathematics with at least one-third of their teachers; (2) provide professional development for at least one-third of their teachers; and (3) improve student achievement on a selected battery of math and science tests at one or more of three educational levels (elementary, middle and high school).

**Explanation of change:** The revised wording of the goal clarifies the threshold for success.

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**FY 2001 Performance Goal III-1c:** Through systemic initiatives and related teacher enhancement programs, NSF will provide intensive professional development experiences for at least 65,000 pre-college teachers.

**FY 2002 Performance Goal:** Not included.

**Explanation of change:** This performance goal is not part of our FY 2002 Performance Plan. For FY 2002 NSF has reapportioned a substantial amount of the funds for the Systemic Initiatives to support the new Presidential Math and Science Partnership (MSP) activity. No new competitions or awards are anticipated under the Systemic programs. A goal related to the MSP has been included in the FY 2003 GPRA Performance Plan.

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**FY 2001 Performance Goal III-2:** Ideas Strategic Outcome -- Enabling discovery across the frontier of science and engineering, connected to learning, innovation and service to society.

**FY 2001 Performance Indicators:**

NSF is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement in one or more of the following indicators:

- A robust and growing fundamental knowledge base that enhances progress in all science and engineering areas including the science of learning;
- Discoveries that advance the frontiers of science, engineering, and technology;
- Partnerships connecting discovery to innovation, learning, and societal advancement;
- Research and education processes that are synergistic.

**FY 2002 Performance Indicators:**

NSF's performance is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement in the majority (4 of 6) of the following indicators:

- Discoveries that advance the frontiers of science, engineering, or technology;
- Discoveries that contribute to the fundamental knowledge base;
- Leadership in fostering newly developing or emerging areas;
- Connections between discoveries and their use in service to society;
- Connections between discovery and learning or innovation; and
- Partnerships that enable the flow of ideas among the academic, public or private sectors.

**Explanation of change:** The set of performance indicators related to the Ideas Goal has been revised to better enable qualitative assessment and reflect the breadth of NSF activities. The criterion for successful performance was raised from significant achievement in at least one indicator to successful achievement in a majority of indicators.

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**FY 2001 Performance Goal III-3:** Tools Strategic Outcome -- Providing “broadly accessible, state-of-the-art and shared research and education tools.”

**FY 2001 Performance Indicators:**

NSF’s performance is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement for one or more of the following indicators:

- Shared use platforms, facilities, instruments, and databases that enable discovery and enhance the productivity and effectiveness of the science and engineering workforce;
- Networking and connectivity that take full advantage of the Internet and make SMET information available to all citizens;
- Information and policy analyses that contribute to the effective use of science and engineering resources.

**FY 2002 Performance Indicators:**

NSF’s performance is successful when, *in the aggregate*, results reported in the period demonstrate significant achievement in the majority (4 of 6) of the following indicators:

- Provision of facilities, databases or other infrastructure that enable discoveries or enhance productivity by NSF research or education communities;
- Provision of broadly accessible facilities, databases or other infrastructure that are widely shared by NSF research or education communities;
- Partnerships, e.g., with other federal agencies, national laboratories or other nations, to support and enable development of large facilities and infrastructure projects;
- Use of the Internet to make SMET information available to the NSF research or education communities;
- Development, management, or utilization of very large data sets and information-bases; and
- Development of information and policy analyses that contribute to the effective use of science and engineering resources.

**Explanation of change:** The set of performance indicators related to the Tools Goal has been expanded and modified to appropriately reflect the breadth of NSF activities. The criterion for successful performance was raised from significant achievement in at least one indicator to successful achievement in a majority of indicators.

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**ANNUAL PERFORMANCE GOALS FOR NSF MANAGEMENT**

**FY 2001 Performance Goal IV-1:** Ninety-five percent of full proposals will be received electronically through FastLane.

**FY 2002 Performance Goal:** Not included.

**Explanation of Change:** This goal will not be continued in FY 2002. Electronic submission of proposals via FastLane is now standard operating procedure at NSF.

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**FY 2001 Performance Goal IV-3:** By the end of FY 2001, NSF will increase usage of a broad-range of video-conferencing/long distance communications technology by 100% over the FY 1999 level.

**FY 2002 Performance Goal:** Not included.

**Explanation of change:** By the end of FY 2001, videoconferencing was viewed as a functioning, rather than experimental, technology. Because videoconferencing is an established practice for us, it will not be

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continued as a goal in the future. We will, however, continue to emphasize this technology for current and emerging business applications.

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**FY 2001 Performance Goal V-7:** NSF will award 30% of its research grants to new investigators.

**FY 2002 Performance Goal:** Not included.

**Explanation of change:** This openness goal is not included in the FY 2002 performance plan because we wish to fully consider whether this particular goal provides a good measure of openness in the system.

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**FY 2001 Performance Goal V-8:** NSF will begin to request voluntary demographic data electronically from all reviewers to determine participation levels of underrepresented groups in the NSF reviewer pool.

**FY 2002 Performance Goal IV-6:** Establish a baseline for participation of members of underrepresented groups in NSF proposal review activities.

**Explanation of change:** The FY 2002 goal is a continuation of the FY 2001 goal. To enable the development of robust baselines, we will continue to gather the appropriate voluntary data from reviewers.

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**FY 2001 Performance Goal V-9b:** Ninety percent of facilities will meet all major annual schedule milestones by the end of the reporting period.

**FY 2002 Performance Goal IV-9b:** Ninety percent of facilities will meet all major annual schedule milestones.

**Explanation of change:** This goal was adjusted based on actual performance reporting experience in FY 2001 and feedback from facilities managers, NSF program officers and IBM Business Consulting Services.