

(2) **PARTICIPATION.**—The Associate Director shall coordinate the participation of national laboratories, universities, the commercial nuclear industry, and other organizations in the investigation of technologies for the treatment, recycling, and disposal of spent nuclear fuel and high-level radioactive waste.

(3) **ACTIVITIES.**—The Associate Director shall—

(A) develop a research plan to provide recommendations by 2015;

(B) identify promising technologies for the treatment, recycling, and disposal of spent nuclear fuel and high-level radioactive waste;

(C) conduct research and development activities for promising technologies;

(D) ensure that all activities include as key objectives minimization of proliferation concerns and risk to the health of the general public or site workers, as well as development of cost-effective technologies;

(E) require research on both reactor- and accelerator-based transmutation systems;

(F) require research on advanced processing and separations;

(G) include participation of international collaborators in research efforts, and provide funding to a collaborator that brings unique capabilities not available in the United States if the country in which the collaborator is located is unable to provide for their support; and

(H) ensure that research efforts are coordinated with research on advanced fuel cycles and reactors conducted by the Office of Nuclear Energy Science and Technology.

(f) **GRANT AND CONTRACT AUTHORITY.**—The Secretary may make grants, or enter into contracts, for the purposes of the research projects and activities described in this section.

(g) **REPORT.**—The Associate Director shall annually submit to Congress a report on the activities and expenditures of the Office that describes the progress being made in achieving the objectives of this section.

SA 2238. Mr. DOMENICI submitted an amendment intended to be proposed to amendment SA 2171 submitted by Mr. LOTT and intended to be proposed to the amendment SA 2170 proposed by Mr. DASCHLE to the bill (H.R. 10) to provide for pension reform, and for other purposes; which was ordered to lie on the table; as follows:

At the appropriate place in the Amendment, insert the following:

SEC. . UNIVERSITY NUCLEAR SCIENCE AND ENGINEERING SUPPORT.

(a) **ESTABLISHMENT.**—The Secretary shall support a program to maintain the nation's human resource investment and infrastructure in the nuclear sciences and engineering and related fields (including health physics and nuclear and radiochemistry), consistent with departmental missions related to civilian nuclear research and development.

(b) **DUTIES.**—In carrying out the program under this section, the Secretary shall—

(1) develop a graduate and undergraduate fellowship program to attract new and talented students;

(2) assist universities in recruiting and retaining new faculty in the nuclear sciences and engineering through a Junior Faculty Research Initiation Grant Program;

(3) support fundamental nuclear sciences and engineering research through the Nuclear Engineering Education Research Program;

(4) encourage collaborative nuclear research between industry, national laboratories and universities through the Nuclear Energy Research Initiative; and

(5) support communication and outreach related to nuclear science and engineering.

(c) **MAINTAINING UNIVERSITY RESEARCH AND TRAINING REACTORS AND ASSOCIATED INFRASTRUCTURE.**—Activities under this section may include:

(1) converting research reactors to low-enrichment fuels, upgrading operational instrumentation, and sharing of reactors among universities;

(2) providing technical assistance, in collaboration with the U.S. nuclear industry, in relicensing and upgrading training reactors as part of a student training program;

(3) providing funding for reactor improvements as part of a focused effort that emphasizes research, training, and education.

(d) **UNIVERSITY-NATIONAL LABORATORY INTERACTIONS.**—The Secretary shall develop—

(1) a sabbatical fellowship program for university professors to spend extended periods of time at National Laboratories in the areas of nuclear science and technology; and

(2) a visiting scientist program in which National Laboratory staff can spend time in academic nuclear science and engineering departments. The Secretary may provide for fellowships for students to spend time at National Laboratories in the area of nuclear science with a member of the Laboratory staff acting as a mentor.

(e) **OPERATING AND MAINTENANCE COSTS.**—Funding for a research project provided under this section may be used to offset a portion of the operating and maintenance costs of a university research reactor used in the research project, on a cost-shared basis with the university.

(f) **AUTHORIZATION OF APPROPRIATIONS.**—From amounts authorized under section 4401, the following amounts are authorized for activities under the section—

- (1) \$19,000,000 for fiscal year 2002;
- (2) \$33,000,000 for fiscal year 2003;
- (3) \$37,900,000 for fiscal year 2004;
- (4) \$43,600,000 for fiscal year 2005; and
- (5) \$50,100,000 for fiscal year 2006.

SA 2239. Mr. DOMENICI submitted an amendment intended to be proposed to amendment SA 2171 submitted by Mr. LOTT and intended to be proposed to the amendment SA 2170 proposed by Mr. DASCHLE to the bill (H.R. 10) to provide for pension reform, and for other purposes; which was ordered to lie on the table; as follows:

At the appropriate place in the Amendment, insert the following:

SEC. . ADVANCED ACCELERATOR APPLICATIONS PROGRAM.

(a) **ESTABLISHMENT OF PROGRAM.**—The Secretary shall establish a program to be known as the "Advanced Accelerator Applications Program".

(b) **MISSION.**—The mission of the program is research, development and demonstration of comprehensive spent fuel management strategies, which emphasize avoidance of proliferation issues and have minimal environmental impact, along with reasonable economic prospects that include efficient utilization of the energy resource of spent nuclear fuel and of repositories for the final waste products.

(c) **GOALS.**—The Office of Nuclear Energy, Science, and Technology of the Department of Energy, called the Office in this section, shall develop goals for the overall program that lead to final waste forms derived from spent nuclear fuel that significantly decrease the long-term toxicity to levels well below that of the original spent fuel. Secondary goals may be developed by the Office to efficiently utilize resources developed

within this program, such as production of radio isotopes for medical applications and production of tritium for defense missions.

(d) **ADMINISTRATION.**—The program shall be administered by the Office—

(1) in consultation with the Office of Civilian Radioactive Waste Management, for all activities relating to the impact of waste transmutation on repository requirements of transmutation or reprocessing of spent fuel; and

(2) in consultation with the National Nuclear Security Administration, for any activities related to tritium production.

(e) **PARTICIPATION.**—The Office shall encourage participation of international collaborators, industrial partners, national laboratories, and universities.

(f) **PROGRAM.**—The Office shall pursue research, development and demonstration programs consistent with the goals of the program. The program shall include evaluation of strategies that involve combinations of current or innovative reactor designs and/or accelerator-driven facilities.

(g) **FACILITIES.**—The Program shall utilize existing facilities, either domestic or international, whenever possible, and develop plans as required for new facilities required to demonstrate key aspects of a final system.

(h) **ADDITIONAL GOALS.**—The Secretary is empowered to add additional goals to the program that increase the efficient utilization of the resources required for the primary mission. Production of tritium by accelerator-based systems may be one of these additional goals.

(i) **AUTHORIZATION OF APPROPRIATIONS.**—From amounts authorized under section 4401, there are authorized to be appropriated \$70,000,000 in fiscal year 2002 and such sums as are required in subsequent years.

PRIVILEGES OF THE FLOOR

Mr. HATCH. Mr. President, I request unanimous consent that Jim Byrne, a staff fellow in my office, be given privileges of the floor during the pendency of consideration of the Railroad Retirement bill, as well as the Defense Authorization bill, S. 1438, and the Defense Appropriations bill, H.R. 3338.

The PRESIDING OFFICER. Without objection, it is so ordered.

Mr. DORGAN. Mr. President, I ask unanimous consent that Mark Zaineddin, a fellow in my office from the U.S. Department of Commerce, be granted floor privileges for the day.

The ACTING PRESIDENT pro tempore. Without objection, it is so ordered.

UNANIMOUS CONSENT REQUEST— H.R. 2299

Mr. REID. Mr. President, I ask unanimous consent that notwithstanding rule XXII, at 9:30 a.m., Tuesday, December 4, the Senate proceed to the conference report to accompany H.R. 2299, the Transportation appropriations bill; that the time be reduced to 60 minutes and divided as follows: 10 minutes each for the chair and ranking member of the subcommittee, Senator MURRAY and Senator SHELBY, as well as 10 minutes each for Senator DORGAN, Senator MCCAIN, and Senator GRAMM, and 5 minutes each for the chair and

ranking member of the full committee; that the vote on adoption of the conference report occur on Tuesday at a time to be determined by the majority leader, following consultation with the Republican leader, without further intervening action.

The PRESIDING OFFICER. Without objection, it is so ordered.

ORDERS FOR TUESDAY,
DECEMBER 4, 2001

Mr. REID. Mr. President, I ask unanimous consent that when the Senate completes its business today, it ad-

journ until the hour of 9:30 a.m., Tuesday, December 4; that immediately following the prayer and the pledge, the Journal of proceedings be approved to date, the morning hour be deemed expired, the time for the two leaders be reserved for their use later in the day, and the Senate begin consideration of the Transportation appropriations conference report; further, that the Senate recess from 12:30 p.m. until 2:15 p.m. for the weekly party conferences, and that the time be charged against cloture on the Daschle substitute amendment, and that the time during the adjourn-

ment of the Senate also be charged against cloture.

The PRESIDING OFFICER. Without objection, it is so ordered.

ADJOURNMENT UNTIL 9:30 A.M.
TOMORROW

Mr. REID. Mr. President, if there is no further business to come before the Senate, I ask unanimous consent that the Senate stand in adjournment under the previous order.

There being no objection, the Senate, at 6:39 p.m., adjourned until Tuesday, December 4, 2001, at 9:30 a.m.