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Minority Opinion: Dissenting Statement of Gilinsky and Macfarlane

These remarks concentrate on the Global Nuclear Energy Partnership (GNEP), the most prominent U.S. Department of Energy (DOE) R&D program addressed in the committee's report. The committee report criticizes DOE's excessive eagerness to start building commercial-scale facilities when the technologies it relies on are still unproven.

However, the committee does not question the desirability of a substantial "closed" fuel cycle R&D program; moreover, it recommends a reprocessing and fast reactor R&D program along the lines of GNEP's predecessor, the Advanced Fuel Cycle Initiative (AFCI). Nor does the committee question whether DOE and its laboratories should have a key role in developing the new fuel cycle technologies, despite DOE's poor track record in developing commercial technologies.

Our own views on these issues may be summarized as follows: (1) commercial reprocessing and recycle will not help solve resource or waste or proliferation problems and are not sensible technical goals for the United States for the foreseeable future—we would close down GNEP and hold DOE R&D spending in this area to pre-2003 levels, before AFCI; and (2) DOE is the wrong agent for developing commercial technologies beyond the early laboratory stage—it has been unsuccessful in the past and its overall record of managing sizeable projects is very poor. Our thinking is explained below.

It is important to clear up one point at the outset. No one appearing before the committee argued that conserving uranium was a reason for pursuing reprocessing and recycle. The resource argument does not appear in the GNEP Strategic Plan. Instead, the Strategic Plan argues that reprocessing and fast reactors would solve the waste disposal and proliferation problems that bar expanded use of nuclear energy.

WASTE DISPOSAL: DEALING WITH SPENT FUEL

GNEP proposes to operate the nuclear fuel cycle so as to eliminate the need for more than one U.S. waste repository for the rest of the 21st century, even if the number of power

reactors—now at about 100—increased by many hundreds. This goal drives the design of both GNEP reprocessing and fast reactor technologies. (By comparison, the "proliferation" constraint—no pure plutonium—is only a wrinkle on the basic pattern.)

GNEP's waste logic runs as follows. A much larger U.S. nuclear program operated on the current once-through basis—with direct disposal of spent fuel—would require many repositories—say, one for every 100 reactors. But the struggle over DOE's proposed Yucca Mountain nuclear waste repository proves, the argument goes, there will never be any additional repositories. We therefore need a closed fuel cycle that could accommodate a large expansion in nuclear power and still use only one repository.

GNEP plans to finesse Yucca Mountain's design capacity—limited by temperature constraints on the repository rock—by leaving the heat-generating waste out of the repository. In particular, it would leave the hottest fission products (shown in red in Figure A-1) in surface storage. This does not expand repository capacity; it just puts less of each reactor's waste inside. Of course, you could do that without GNEP by putting spent fuel in dry cask surface storage, which is essentially unlimited. But GNEP excludes this option. If Yucca Mountain fails to get a license and long-term surface storage is acceptable, the GNEP story collapses; and the same is true if people accept other repositories in the future.

Note that GNEP would leave the radioactive cesium-137 and strontium-90 on the surface. The half-lives of these isotopes are about 30 years, so they would have to remain in such storage for at least 300 years. There is no word on where DOE would store this material. As this would involve roughly as much storage capacity as would the original spent fuel, it is difficult to see any gain over the current once-through fuel cycle, especially considering that reprocessing would produce other waste streams as well.

The proposed technology is complex and would inevitably be very expensive. The design requirements for GNEP's form of light water reactor (LWR) spent fuel reprocessing

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