

As a result, some of these proposals of 2 years ago are not being followed through; others are being followed through more vigorously, and the annual budget is set on the basis of these continuing analyses that are being made.

We all believe that the information that has been obtained from CTR research is even more encouraging than it was 2 years ago. This gives us the enthusiasm to take on more of these expensive experiments. That is why you see the budget increasing. These increases are something like 10 to 15 percent. They do not result in a 5-year doubling but they are keeping the program moving effectively. So that is the kind of a procedure through which we have gone to analyze the program and its future.

Mr. BROWN. This field is a very good example of a basic science where the ultimate results or even the rate of progress are actually unknowable in advance, or at least very far in advance. You have to make some educated guesses. However, we have seen some breakthroughs in research, and I guess lasers is a good example. Once the breakthrough is made, the level of funding for applications and for additional basic research seems to skyrocket as the implications become more broadly understood.

Dr. TAPE. This particular program is unusual too in that we know the basic work that has to be attacked. We know what kind of information we need to get. If the results of those lead us down the road to where this is technically feasible, we know what the payoffs are apt to be; they are tremendous. It is somewhat different from other research, where one can't necessarily predict what the application will be. In this one, if we are successful, we know what the application will be. And we know it will be an expensive engineering undertaking to produce a competitive new energy source, but we have that in front of us.

Mr. BROWN. Thank you.

Mr. ROUSH. In March of 1954 President Eisenhower issued Executive Order 10521 which directed in section 8 that:

The head of each agency engaged in scientific research shall, to the extent practicable, encourage and facilitate the sharing with other Federal agencies of major equipment and facilities.

And, secondly:

A Federal agency shall procure new major equipment for facilities for scientific purposes only after taking suitable steps to ascertain that the need cannot be met adequately from existing inventories or facilities of its own or of other agencies * * *.

Is this still our policy?

Dr. TAPE. Certainly, Mr. Chairman, this is a policy that the Commission is following. Let me go back to the reference in my testimony on the so-called work for other people and work that we ask other people to do for us. We recognize that our abilities in certain areas can be extremely useful to others. I think that Dr. MacArthur yesterday may have mentioned transfers between the DOD and the AEC. Although the AEC has the responsibility for weapons R. & D., development and production, the DOD has certain responsibilities on its side. Where the two of us find that one of our AEC laboratories can better carry out certain work for the DOD, even though it is through