

To recapitulate at this point, the concept of the present KSC structure is to locate within one operating Directorate (the Director of Launch Operations) all functions which are unique to our being an installation that launches hardware into space. In other words, these are functions which occur only because we are in the launching business, but these, moreover, are functions which need to be performed directly by the launch team itself. Basically, the Launch Operations Directorate is concerned with the flight hardware and with that GSE in intimate support of the flight hardware.

The rest of the total ground environment is operated by the Technical Support Directorate, the function that Mr. Ray Clark heads.

The fifth and last major function is furnishing installation support and administrative services. By installation support we mean functions which have to be carried out on a 24-hour-a-day basis, whether we launch or not. Obviously, there is a great accentuation of such functions during an actual countdown or critical test, but these are the things that have to be done to keep in operation a very large and complex installation representing a capital investment of close to \$1 billion. These base installation services are managed by the Directorate of Installation Support, Mr. Keith O'Keefe.

Administrative services cover the functions that the Government itself must perform in areas of procurement, personnel, management analysis, and resources management. This is done by the Director of Administration, Mr. George Van Staden. Note that certain of these organizational boxes, and particularly this box, have no contractors working with them, the reason being that they are performing a function which cannot be delegated in any fashion outside the Government's own hands.

Over the last 5 years we have recently gone through a period of rapid growth. The civil service component of governmental people stands at 2,785 in our budget projections for fiscal year 1968. This is the same figure as last year. I should note that the figure is somewhat larger than the one shown in Dr. Debus' earlier chart. He showed 2,720. The difference represents temporary positions not included in his figures.

You will notice that our team is made up of several important components (fig. C-3). I would like to comment on each of these as we pass. First, the ULO stage contractors are those who work with unmanned launch operations. You will notice that this group has been constant at about 1,500 over the last 4 or 5 years.

On the other hand, we had until recently a group here for the Gemini program. Until that program was completed during the current year, there were about 500 Gemini stage contractor personnel.

Construction workers were a very significant part of our total work force 2 years ago. They are winding up their work as our facilities on Merritt Island are completed. By the end of 1968 we expect there may be as few as 600 people in this category. That contrasts with 5,900 here in 1965 when complex 39 was at its greatest peak of activity, that is, when it was under construction.

The area called Support Operations on figure C-3 represents 9,800 contractor personnel who provide mission support for operating our total installation but are not concerned with the checkout of the flight