Ecomomic and Scientific Justifications for the Large Space Telescope

For a number of years the scientific community has spokeness of the value of a large telescope orbiting outside of the earth's atmosphere. NASA has reflected this interest by contracting preliminary design and program planning studies to scientific companies, among them ITEK of the Sikk 5th district. In its FY 1977 budget, NASA requested 12 million dollars for first-year development of hardware; @MRE OMB cut this funding out of the NASA budget. Rep. Don Fuqua, chairman of the Subcommittee on Space Science and Applications, restored \$3 million for instrument development. This money, however, will not involve optical work (ITEK'S interest), nor will any of the money be contracted outside of NASA. The benefits of a fully-funded LST to the advancement of scientific knowledge and to the Massachusetts economy are enormous.

The economic impact of the LST on Massachusetts will be highly beneficial.

The total cost of the program is estimated at about \$300 million (CY 1975 dollars),

it of which the telescope and instruments would is cost about \$100 million.

Initial estimates of \$400-500 million were scaled down in response to congressional direction.

Because of its involvement with NASA for more than 5 years on this program,

ITEK stands in an excellent position to be awarded the contract to design and

construct the rt telescope. The company estimates the contract will amagaix a

amount to \$60 million over 8 years. Seventy to eighty per cent of this money will

be spent in Massachusetts. Into a depressed economy, the contract would

directly inject 600 jobs. (ITEK alone estimates it wilk would hire 100-200

workers.) The secondary effects of this award are likely to mean another 1000

jobs. Thus, Massachusetts would benefit by approximately 1600 jobs.

In the longer run, the LST contract could help to arrest the declinexex in employment in ITEK's Optical Division for its peak of about 2500 in 1969 to its current level of about 800. The strengthening and revitalization of such a large employer as ITEK would be a gree strong antidote to the ailing Massachusetts economy. In addition, the design and construction of the telescope in Massachusetts would benefit the state's colleges and universities by bringing them into the research and development of the telescope at a time when many of them arexexperiences experiencing financial difficulties.