

Langley Research Center
Hampton, Virginia
23665-5225

OCT 15 1986

Reply to Attn of 446

TO: NASA Headquarters
Attn: RI/Director for Institutions

FROM: 103A/Deputy Director

SUBJECT: Summary Preliminary Langley Research Center FY'89 Major CoF Submittal

Enclosed are advance copies of the standardized formats of LaRC's FY'89 Preliminary Major CoF Submittal, as requested in your September 12, 1986, letter. LaRC is proposing that five Major CoF Projects be funded in FY'89:

- | | |
|--|----------------|
| 1. Construction of Supersonic Low-Disturbance Tunnel (1247D) | \$ 5.2M |
| 2. Modifications to Upgrade Hypersonic Aerothermal Complex (1247, 1251, 1275) | 9.4M |
| 3. Modifications for Electromagnetics Scattering Laboratory (1299) | 16.2M |
| 4. Modifications to 4- By 7-Meter Low-Speed Tunnel for Aeroacoustic Research (1212C) | 10.5M |
| 5. Modifications for Space Flight Experiment Development Facility (1250) | 6.0M |
| | <u>\$47.3M</u> |

The first project is a high-priority carry over from FY'88. The second project complies with your September 12, 1986, emphasis on improving the reliability and productivity of those existing facilities which are of great programmatic interest. The third project, "Modifications to Upgrade Electromagnetics Scattering Laboratory (1299)", provides an exciting new opportunity for NASA. The remaining two projects provide new capability to allow LaRC to meet major Agency and National research objectives.

Copies of the package for the fifth project are also being sent to OSS and Ossa since this project also supports missions for these codes.



Paul F. Holloway

5 Enclosures

cc:

NASA - NX/B. J. McGarvey
 NASA - NXF/F. X. Durso
 NASA - NXF/A. L. Farrow
 NASA - E/B. I. Edelson
 NASA - S/A. J. Stofan
 NASA - EPI/H. H. Ellis, Jr.
 LeRC - 3-8/J. W. Gregory
 ARC - 213/C. R. Castellano
 101/General Files
 106/Director
 103/Director Assistant
 117/W. D. Mace
 118/C. R. Blankenship
 116/R. V. Harris
 107/R. R. Nunamaker
 111/J. F. Stokes
 113/J. F. Creedon
 112/R. L. Swain
 112/R. T. Wingate
 112/J. R. Dinkins
 436/J. E. Knemeyer
 104/A. C. Massey
 104/A. C. Fitzgerald
 104/T. E. Caldwell
 446/FPDO Files

KRC446/KRCredeur:jrn 10-15-86 (3467)

446/CRS KRC for CRS

MD
 112/RLS

Res 10/15/86

MODIFICATIONS FOR SPACE FLIGHT EXPERIMENT DEVELOPMENT FACILITY (1250)

FY 1989 - LARC

REQUIREMENT:

- 0 ENVIRONMENTALLY CONTROLLED, VERY CLEAN FACILITY FOR ASSEMBLY, INTEGRATION, TEST AND CALIBRATION OF SPACE-FLIGHT HARDWARE

WHY NOW:

- 0 INCREASED NUMBER OF SMALL SPACE-FLIGHT EXPERIMENTS
- 0 INCREASED ACTIVITY IN EARTH OBSERVING EXPERIMENTS

DESCRIPTION:

- 0 24,000 SQUARE-FOOT LABORATORY ADDITION TO PROVIDE:

- | | |
|---------------------------------|---|
| 0 2 CLASS 100 CLEAN ROOMS | 0 BONDED STORAGE AREA |
| 0 2 CLASS 10,000 PRECLEAN ROOMS | 0 MECHANICAL EQUIPMENT AND STORAGE AREA |
| 0 ACOUSTIC TESTING ROOM | 0 OPEN WORK AREA |
| 0 SCREEN ROOM FOR EMI TESTING | |

CONCEPTUAL STATUS:

- 0 PER REQUIRED

ESTIMATED COST: \$6.0M

R&D FUNDING:	NONE	
O&M REQUIREMENTS:	CIVIL SERVICE	FTE <u>2</u>
	SUPPORT CONT.	MYE <u>2</u>
	UTILITY COSTS	<u>\$30K/YR</u>
	MAINT. COSTS	<u>\$35K/YR</u>

OCTOBER 5, 1986

BACK-UP INFORMATION

LARC MODIFICATIONS FOR SPACE FLIGHT EXPERIMENT DEVELOPMENT FACILITY (1250)

\$6.0M

PRIOR BUDGET STATUS: NONE

<u>SCHEDULES:</u>	<u>BEGIN</u>	<u>END</u>		<u>BEGIN</u>	<u>END</u>		<u>BEGIN</u>	<u>END</u>
PER:	2Q FY'87	4Q FY'87	DESIGN:	2Q FY'88	1Q FY'89	CONST:	2Q FY'89	4Q FY'90

CRITICAL PROGRAMMATIC MILESTONES:

- 0 NUMBER OF LARC FLIGHT EXPERIMENTS TO TRIPLE BY 1995
- 0 SPACE STATION, INCREASED SHUTTLE FLIGHTS

ALTERNATIVES:

- 0 NO INTEGRATION OF EXPERIMENTS
- 0 LIMITED EXPERIMENT DEVELOPMENT
- 0 CONTINUED USE OF "AD HOC" FACILITIES FOR INSTRUMENT ASSEMBLY, TEST, AND CALIBRATION WITH CONSEQUENT ADDITIONAL RISK TO EXPERIMENTS WHEN MOVING HARDWARE FROM FACILITY TO FACILITY

FUTURE REQUIREMENTS/FOLLOW-ON ACTIONS:

NONE ANTICIPATED

COF PROJECT MANAGER
ADVOCATES/STATUS

R. K. FAISON, JR.

CENTER:

R. M. BOYKIN

HQS:

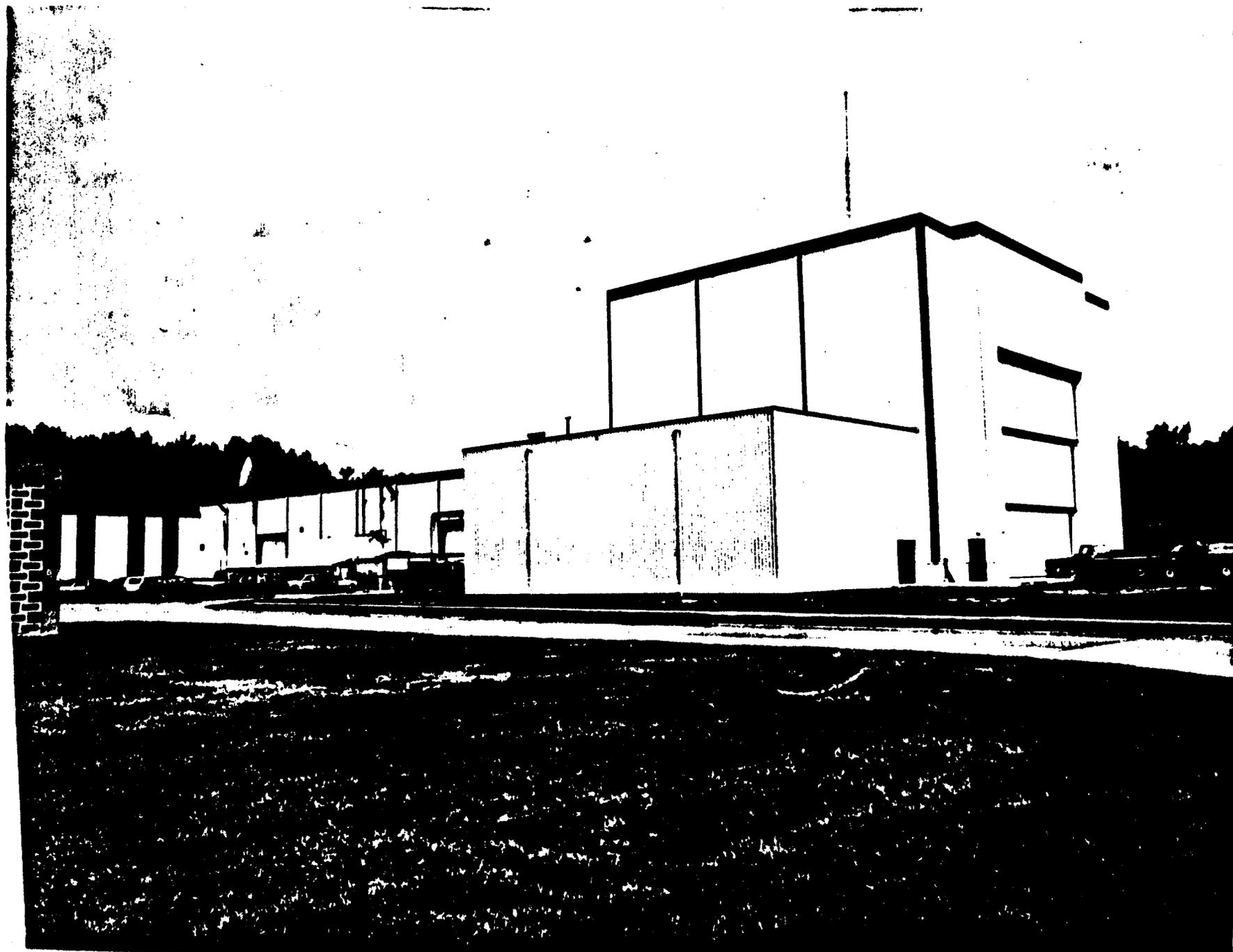
W. R. HUDSON

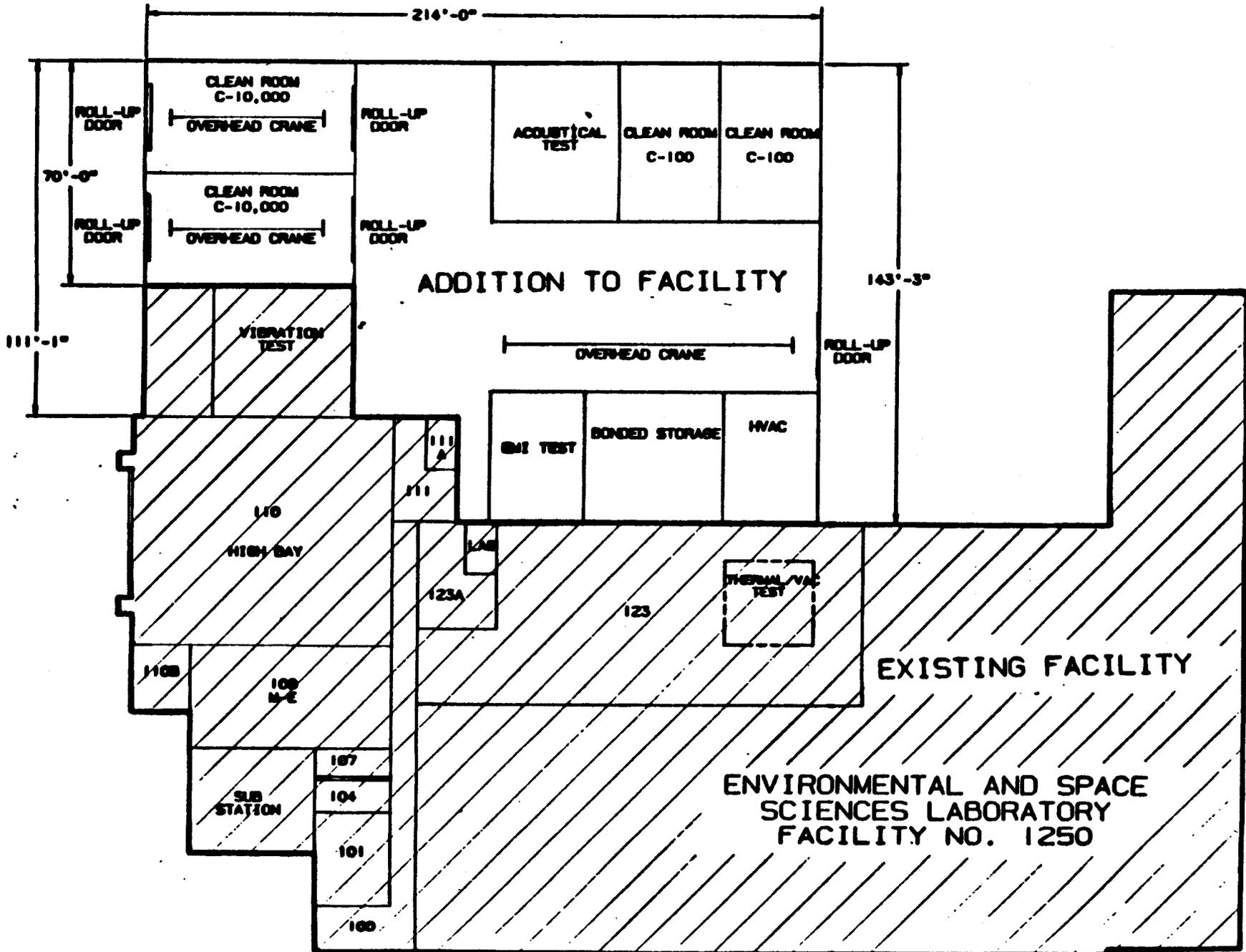
OTHER:

OSSA, OSS, OSF

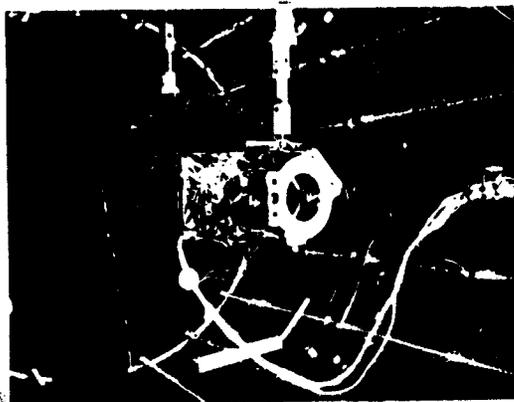
OCTOBER 5, 1986

NASA
L-85-10,827

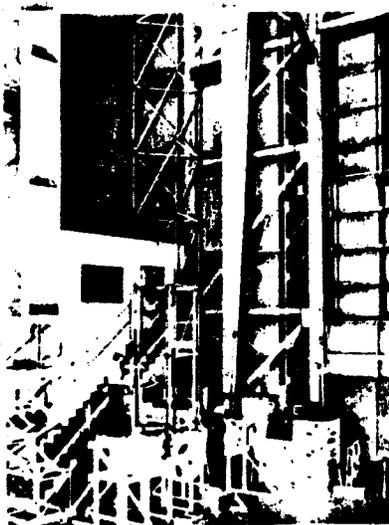




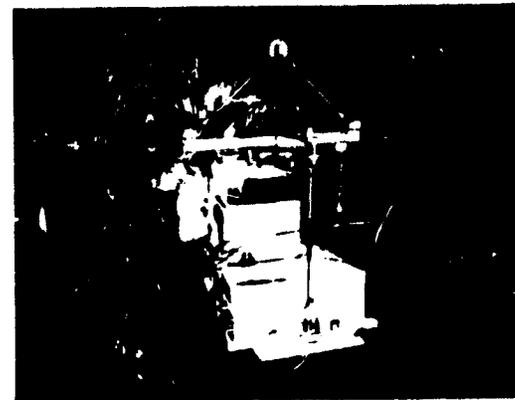
SPACE FLIGHT EXPERIMENTS DEVELOPMENT AND INTEGRATION FACILITY



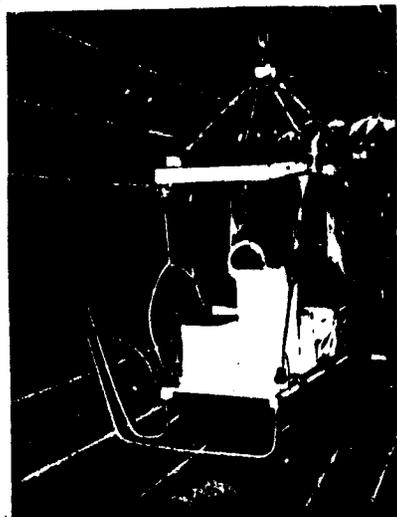
HALOE



ACCESS (Space Station)



MAPS



FILE



LDEF

