

# Rocket Propulsion Testing



**40 years of altitude  
testing**

**Arnold Engineering Development Center  
Tullahoma, TN  
An Air Force Materiel Command  
Test Center**





*Saturn V J2 engine.*



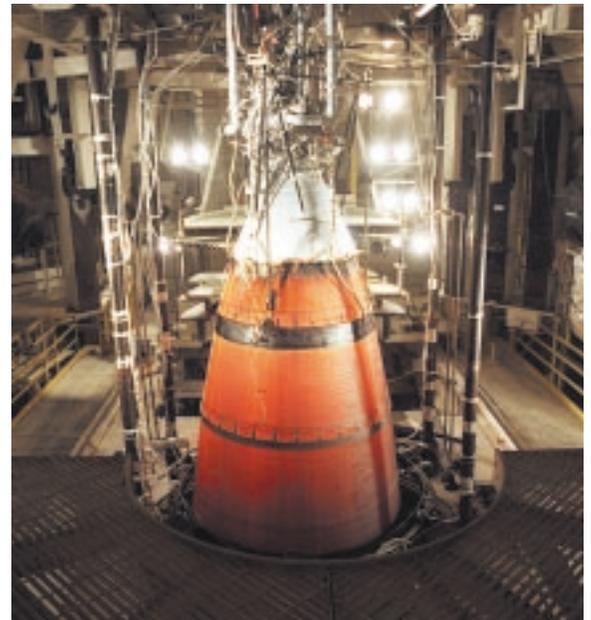
*Minuteman  
III rocket  
motor  
installed in  
J-6 Test Cell.*



*Pathfinder engine.*



*Titan III LR87.*



*RL10 engine with nozzle extension.*

# AEDC Rocket Test History

## LIQUIDS

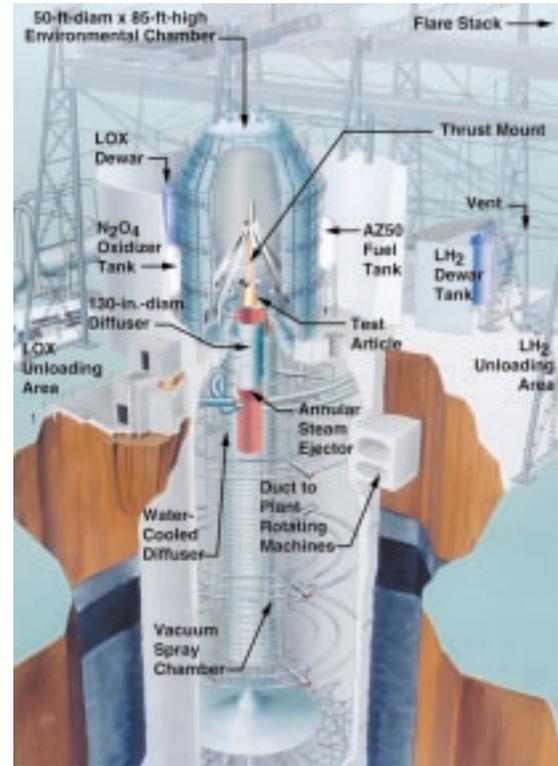
### System (Engine)

Titan III Stage I (LR87)  
 Titan III Transtage (AJ10-138)  
 Titan III Improved Transtage  
 Saturn V J2 and J2S  
 X-15, XLR-99  
 Able Star SJ10-104  
 Gemini SLR-81-BA13  
 AGENA 8048, 8081, 8-96  
 Apollo Service Prop (AJ10-137)  
 Apollo Lunar Module Ascent  
 Apollo Lunar Module Descent (TR-201)  
 Apollo Service Module ACS  
 Command Module  
 Centaur RL10 Space Tug  
 Atlas Vernier  
 Titan I Stage II (LR91-AJ-3)  
 Titan II Stage II (LR91-AJ-5)  
 Minuteman III PSRE  
 Peacekeeper Stage IV  
 SICBM Post-boost Vehicle  
 Delta III RL 10B-2  
 Titan III Stage II (LR91-AJ-11)

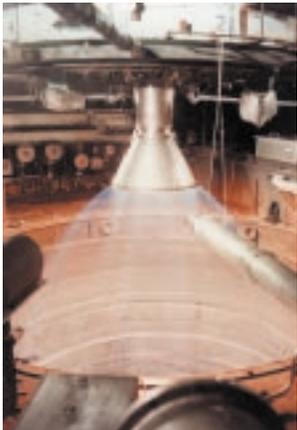
## SOLIDS

### System (Engine)

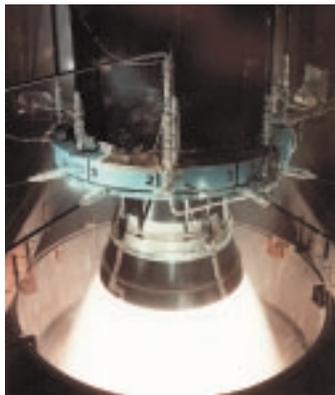
Minuteman Stage II, III, Retro  
 Peacekeeper Stage II, III  
 SICBM SII, III, Start Cart  
 Trident I C4 SII, SIII  
 Poseidon SII  
 Titan II Retro, Vernier, Translation  
 Saturn SIC Retro  
 Titan III-M TVC  
 Saturn/Apollo Escape  
 ASAT Stage II  
 SRAM Two Pulse  
 Surveyor Retro  
 Athena Retro  
 IUS Apogee  
 PAM DI, DII  
 Stars 12 through 48, 63F  
 Scout Stage III, IV and V



J-4 Test Cell.



Liquid rocket engine firing.



Peacekeeper ICBM Stage II solid rocket motor firing in J-4.



J-6 firing.

Test Facility	Cross Section, ft	Length, ft	Pressure (Nominal), ft	Capacity of Installed Thrust Stand, lb
J-4	48 diam	82 high	100,000	500,000
J-6	26 diam	62	100,000	500,000

*Super Bates rocket motor firing in J-4.*



For detailed information about the capabilities of AEDC's rocket test cells contact:

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