

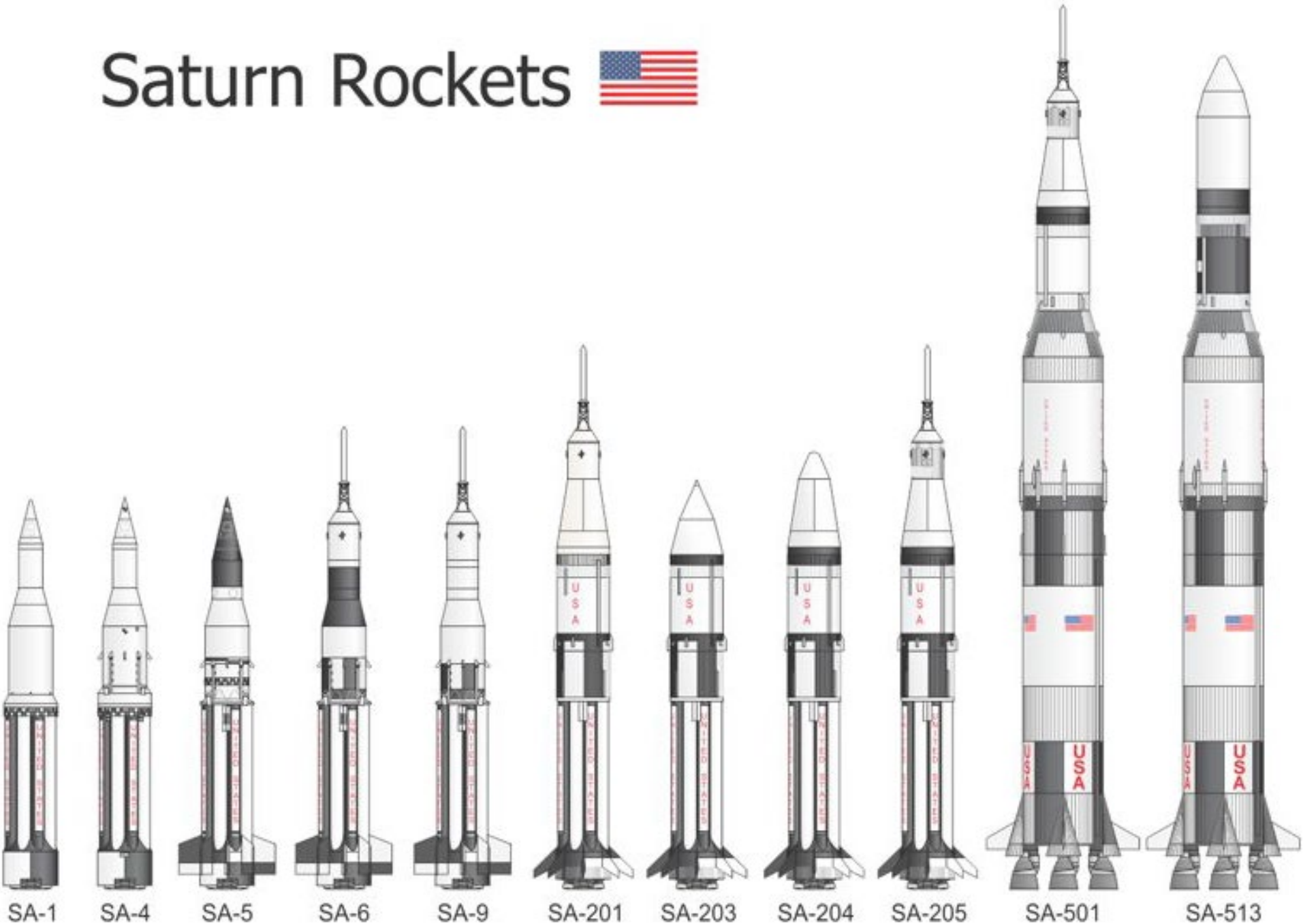
The Saturn V

INST 154

Apollo at 50

[Apollo 11 Launch](#)

Saturn Rockets



SA-1

SA-4

SA-5

SA-6

SA-9

SA-201

SA-203

SA-204

SA-205

SA-501

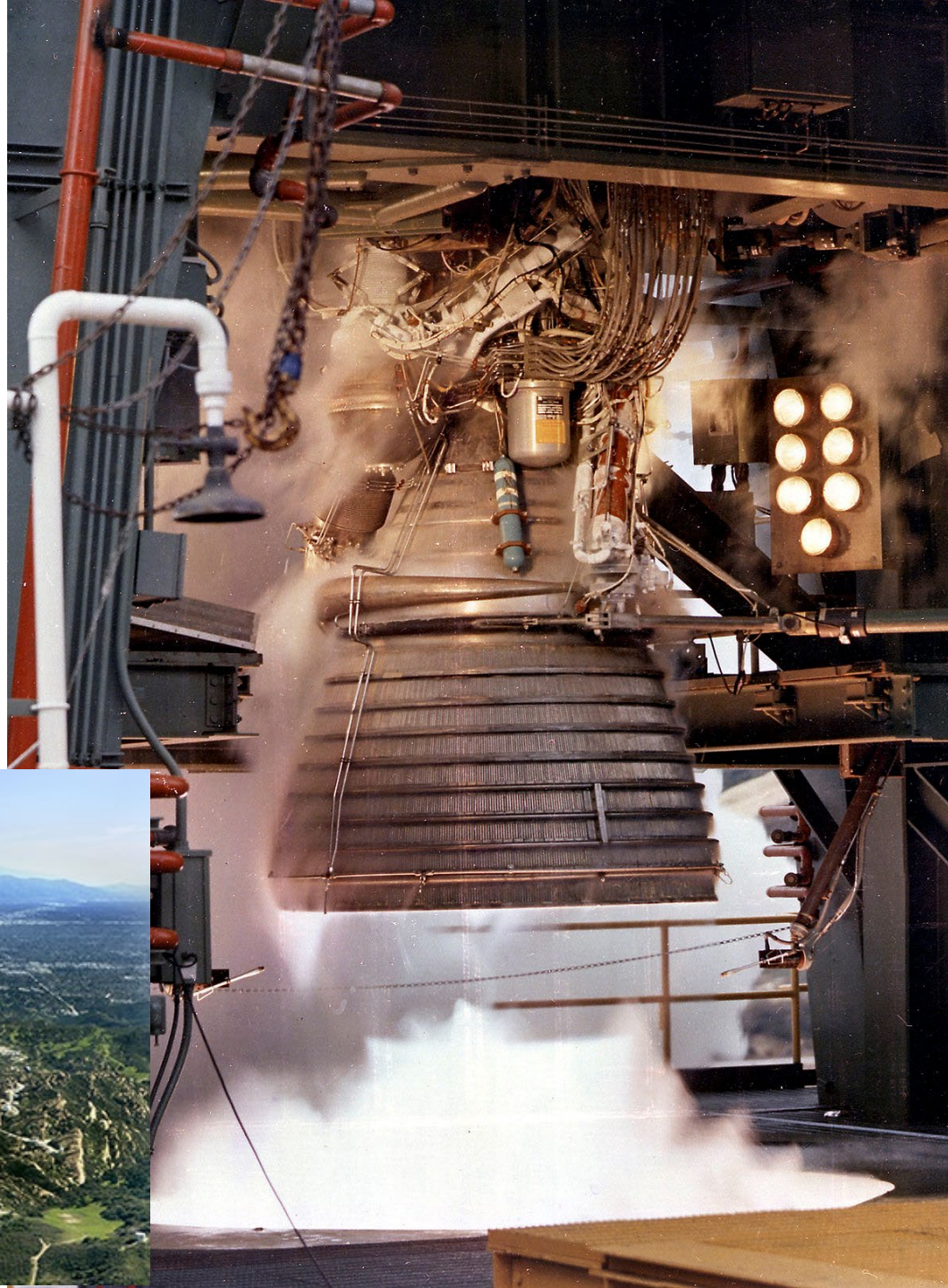
SA-513



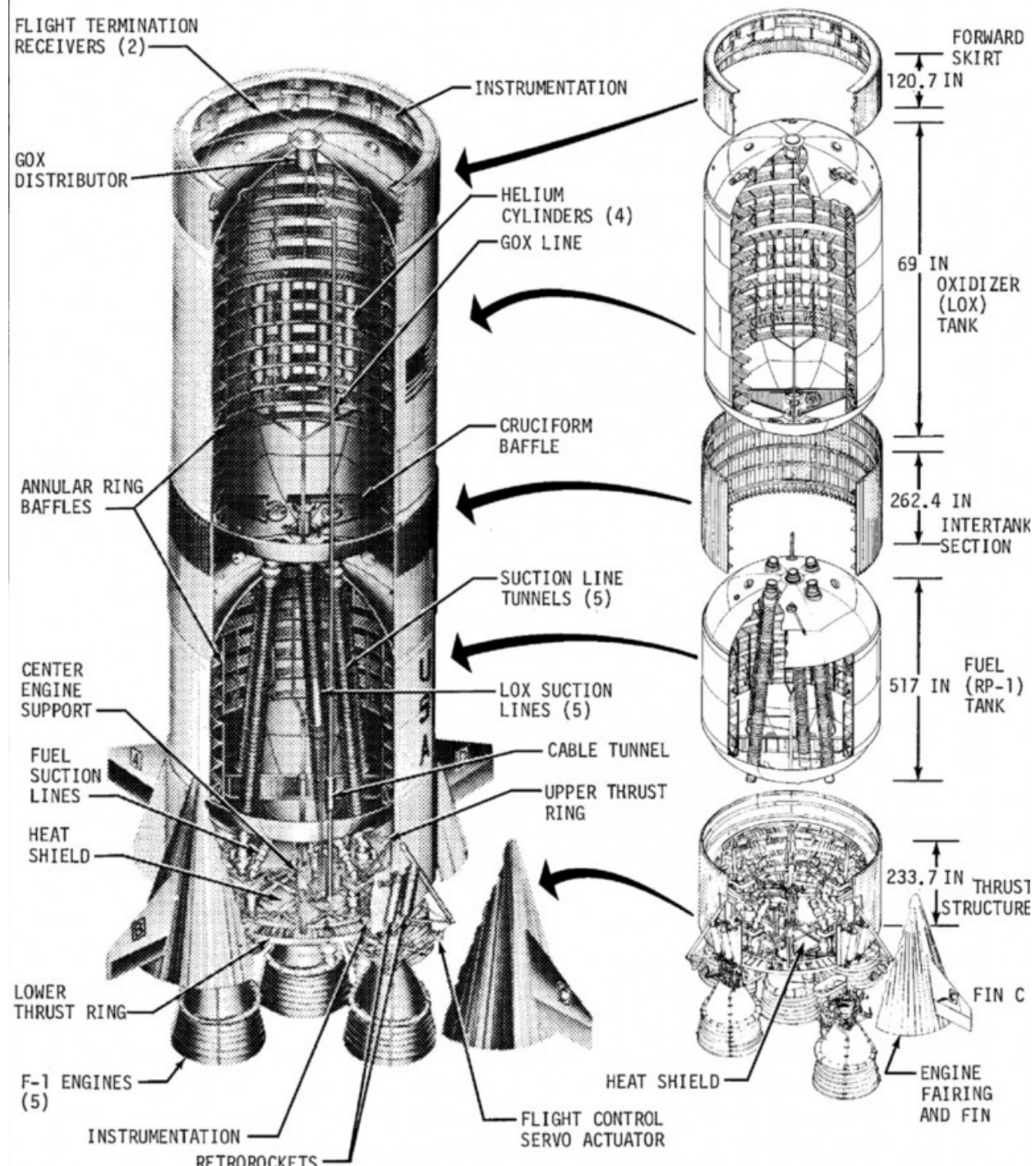
J-2 →

← F-1

(Rocketdyne)
Santa Susana
Field Laboratory

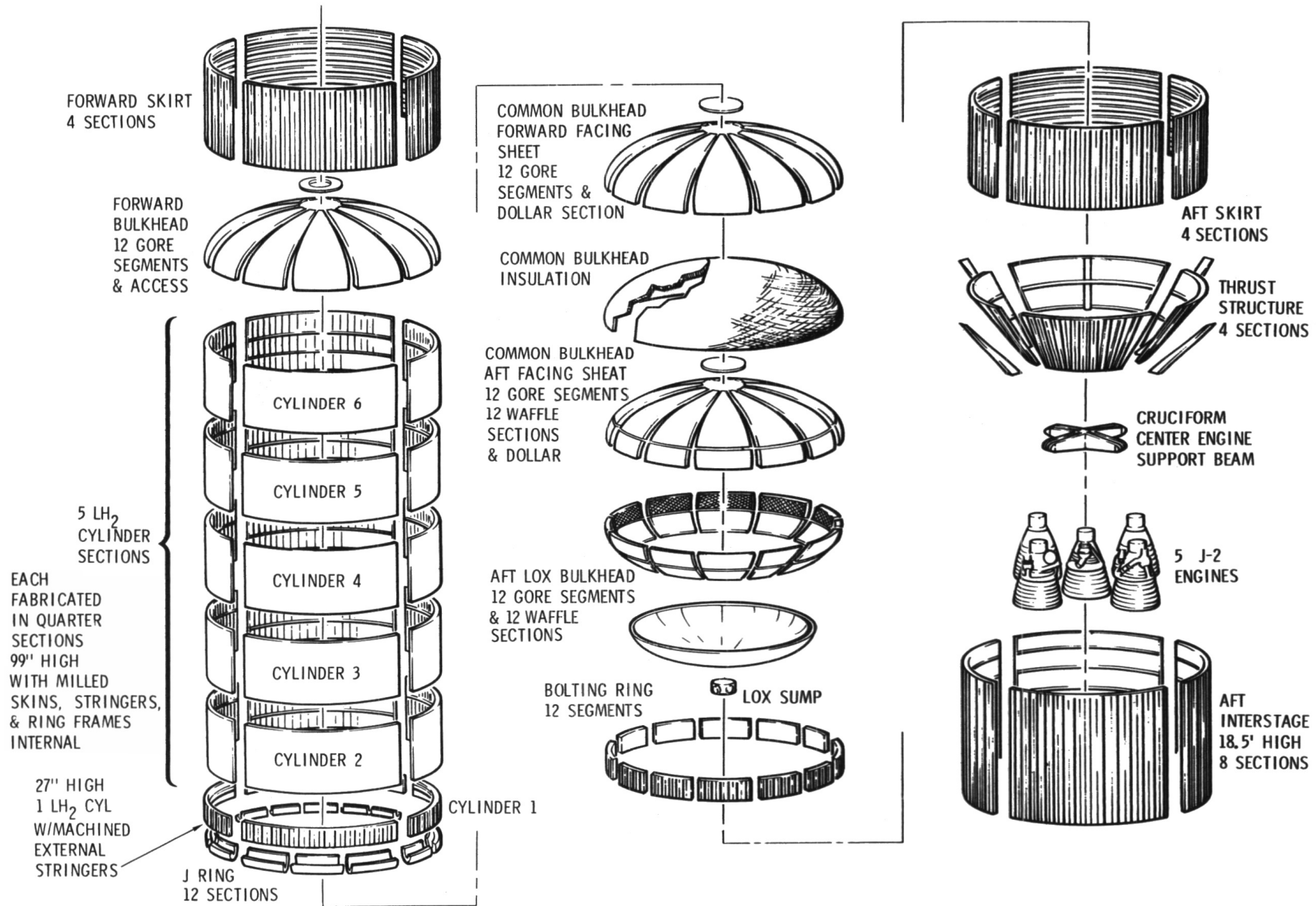


S-IC First Stage



(Boeing) Michoud Assembly Facility (S-IC)



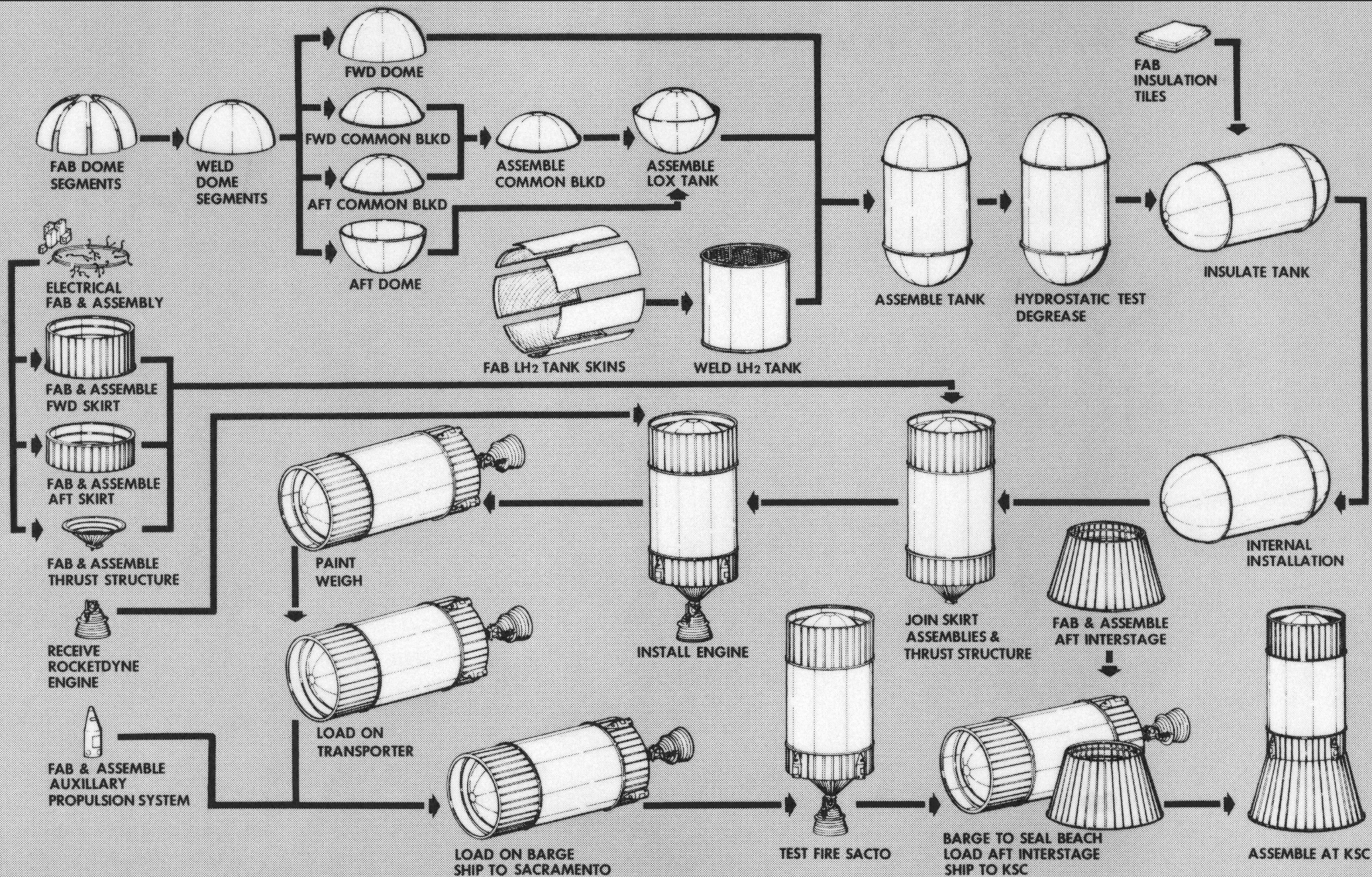


S-II EXPLODED VIEW

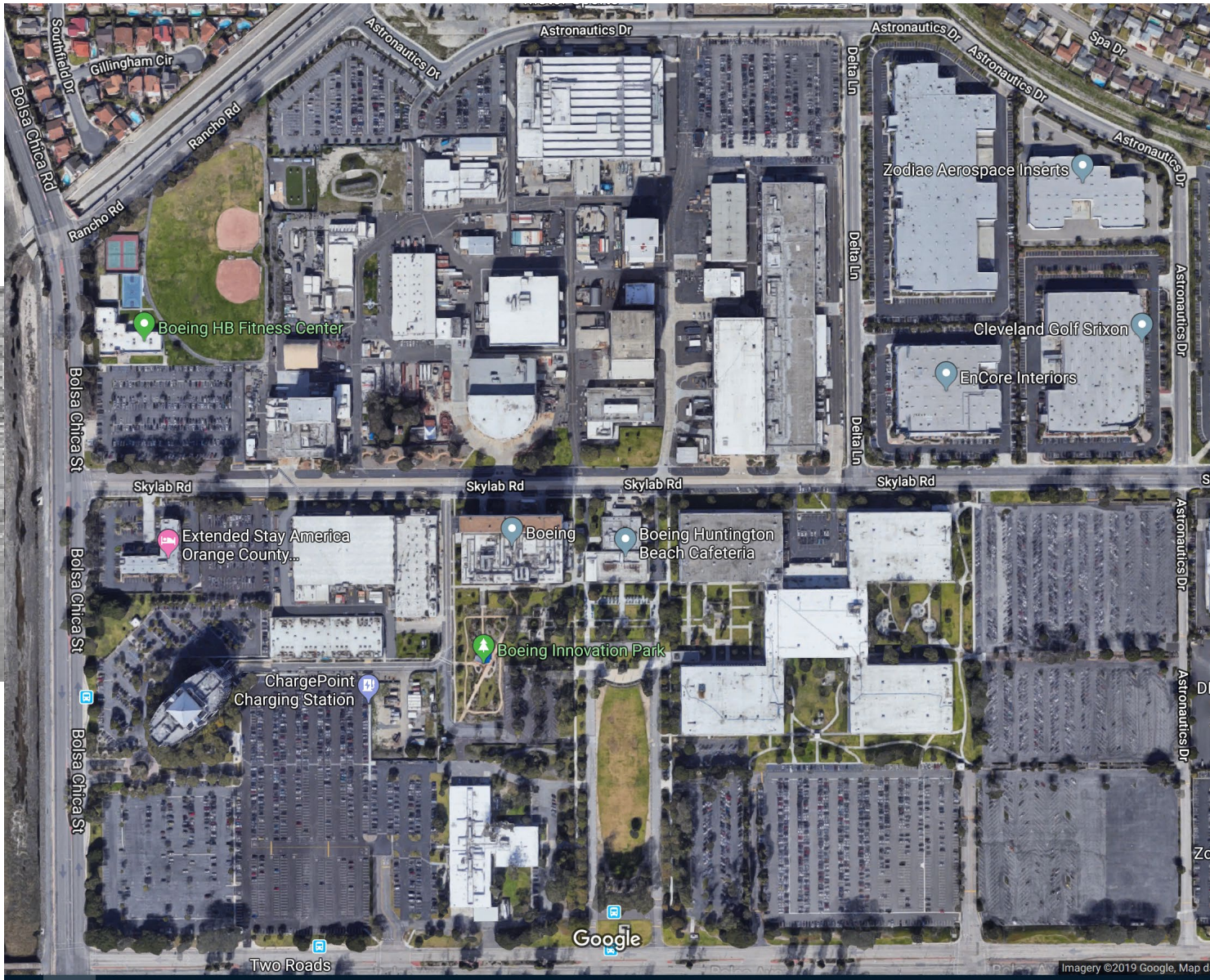
(North American)
Seal Beach
Assembly Facility
(S-II Second Stage)



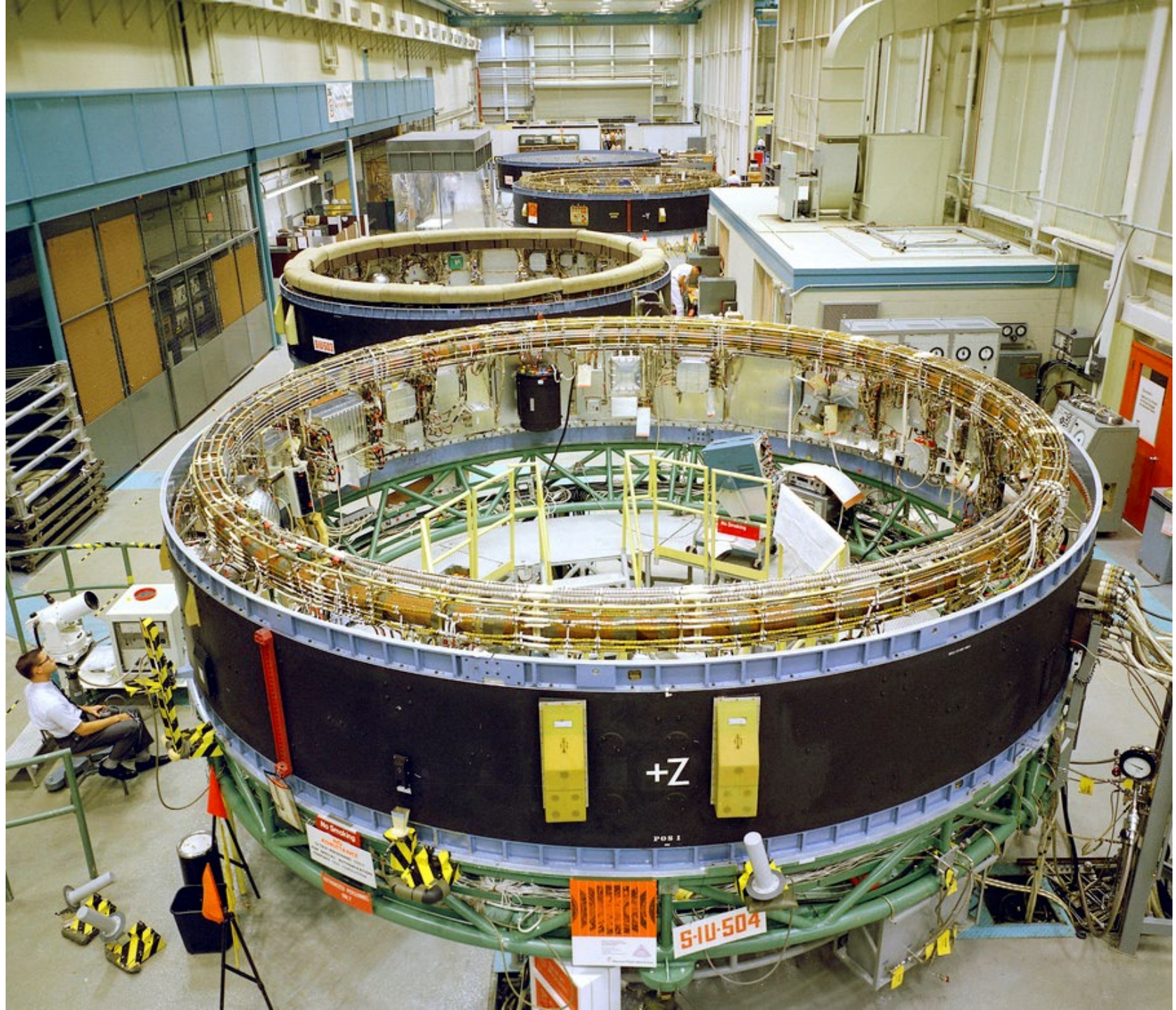
SIVB-V MANUFACTURING FLOW SEQUENCE



(Douglas) Huntington Beach Facility (S-IVB Third Stage)



(IBM)
Huntsville Plant
(Instrument Unit)

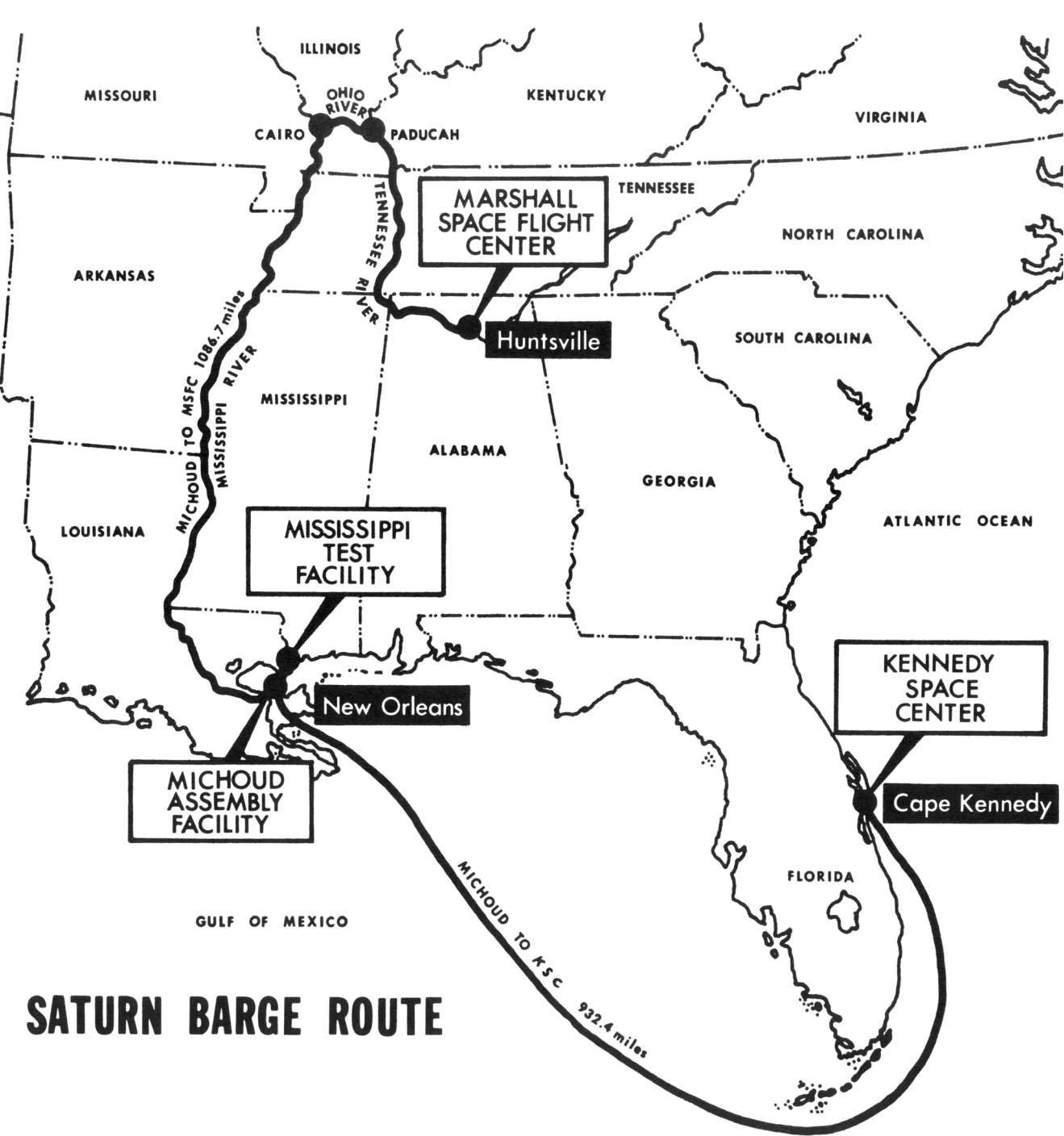


The Pregnant Guppy









SATURN BARGE ROUTE



Dynamic Test Facility (Marshall Space Flight Center)



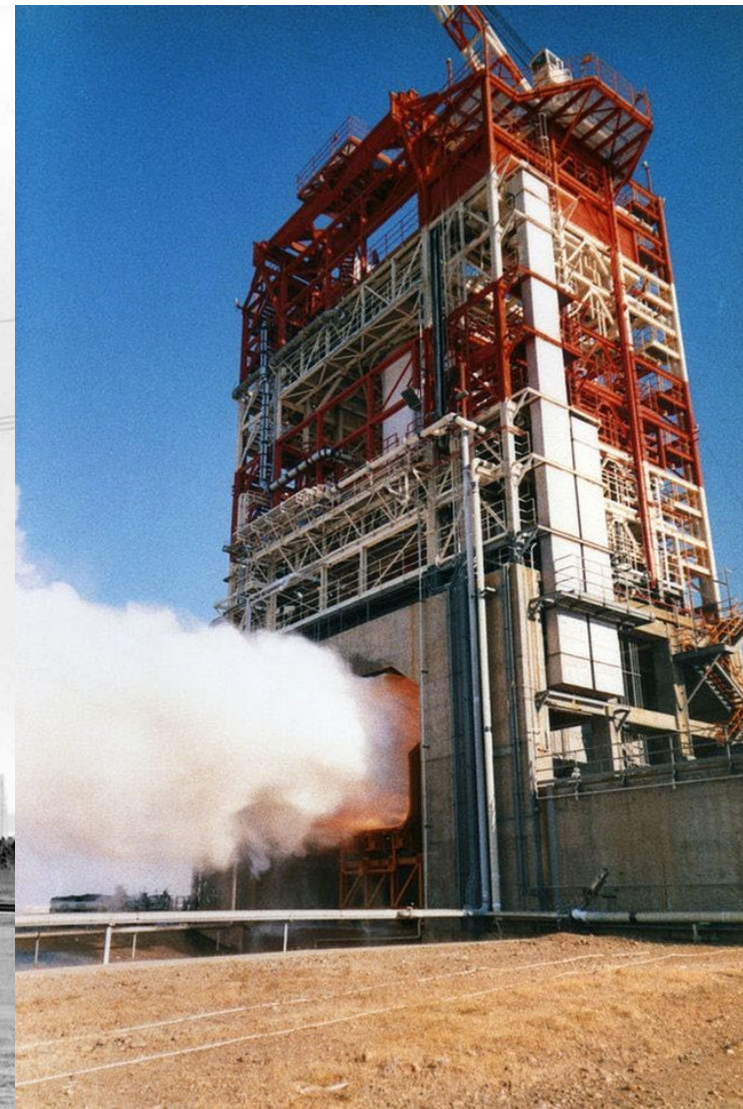
Mississippi Test Facility

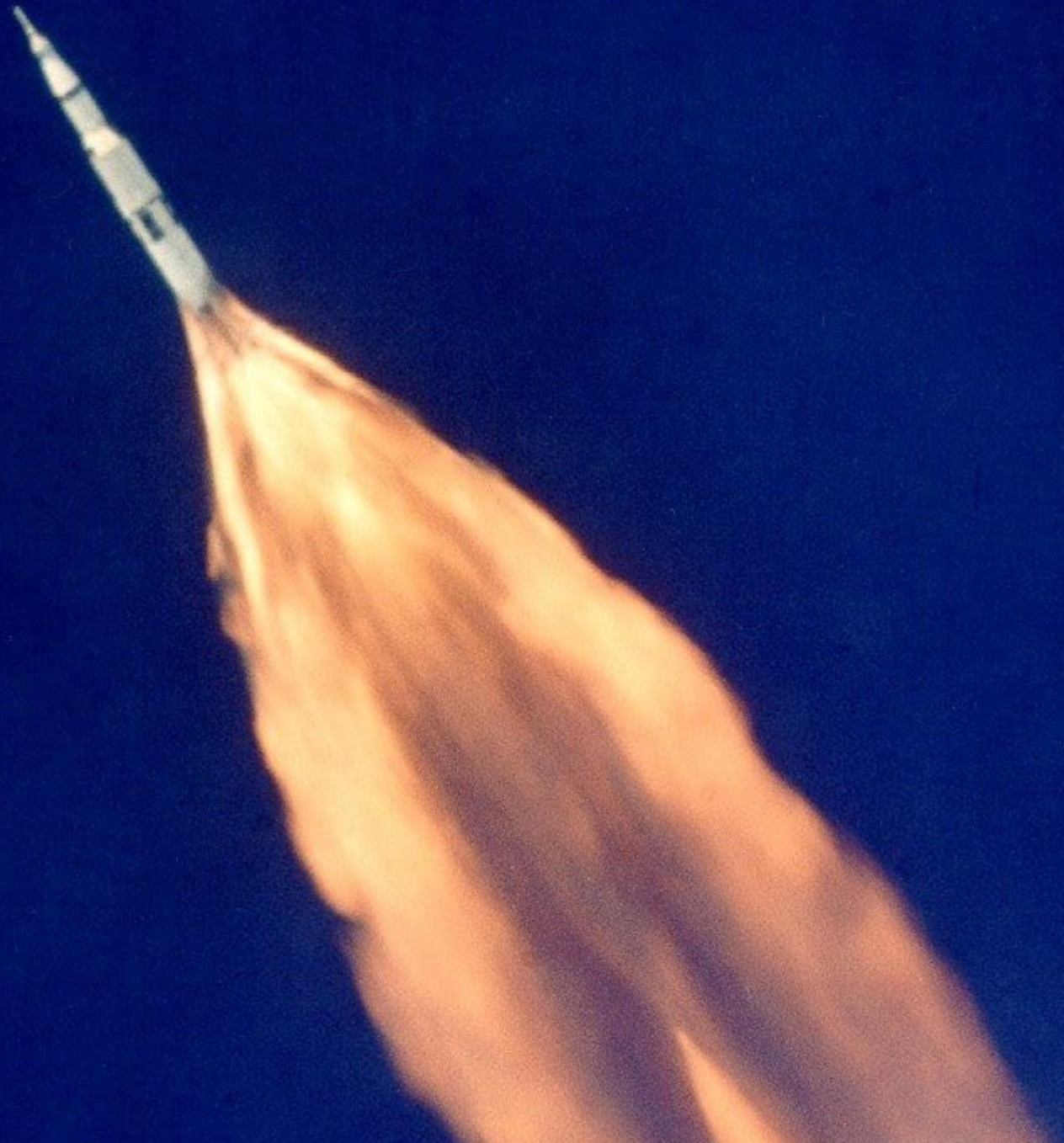
S-IC S-II



Sacramento Test Facility

S-IVB



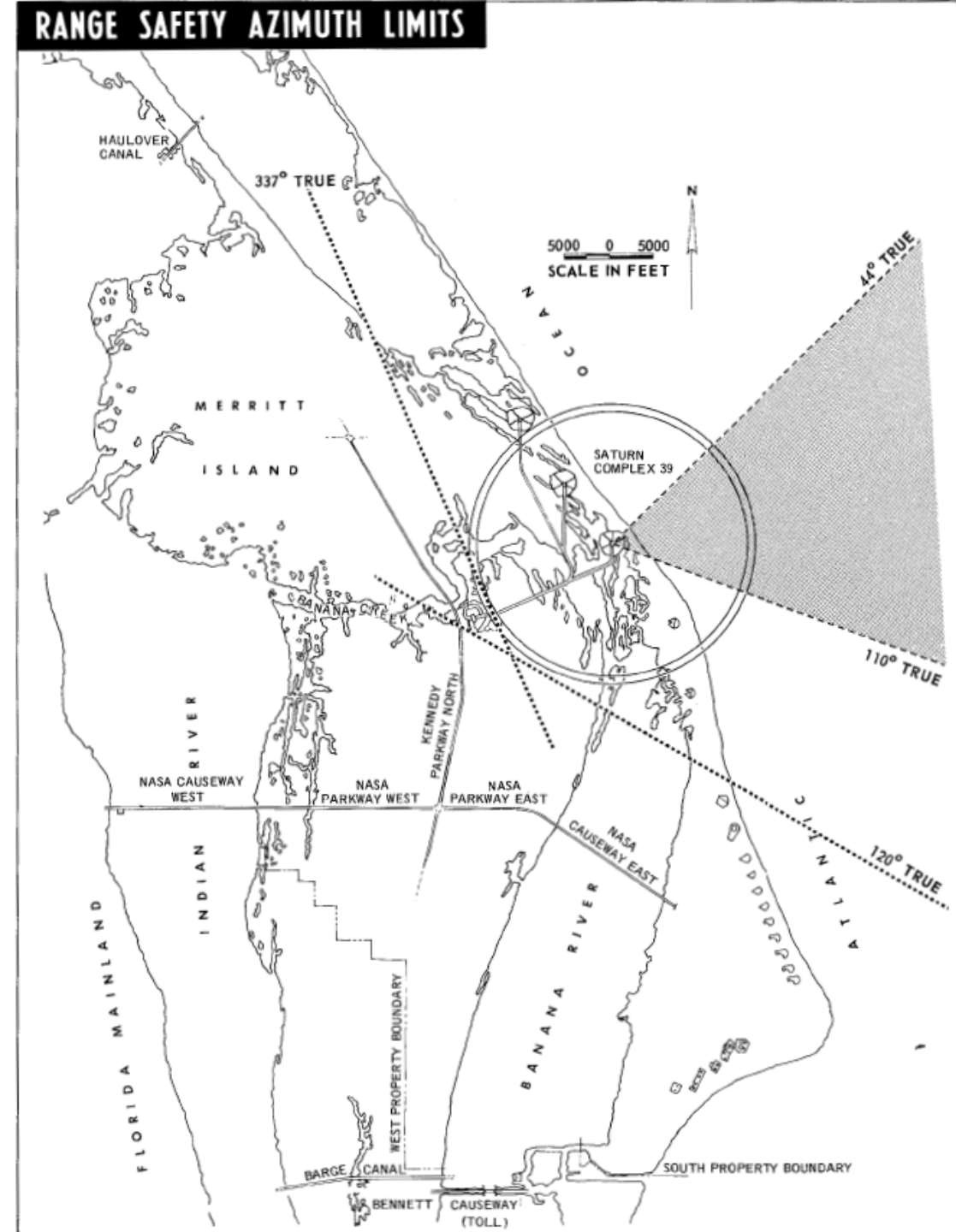


A
Used
F-1



Saturn V Mission Sequence

- SA-500F (May-October 1966)
 - Facilities integration vehicle
- Apollo 4 (November 1967)
 - All-up test
- Apollo 6 (April, 1968)
 - Pogo
 - SLA failure
 - Two S-II engine failures
 - S-IVB restart failure
- Apollo 8 (December, 1968)
 - First crewed flight



Discussion Groups

- Moon Machines Video (“Saturn V”)
 - An overview of Marshall Space Flight Center’s Saturn V development
- Bilstein Chapter 2 (“Aerospace Alphabet: ABMA, ARPA, MSFC”)
 - The evolution of the Saturn design
- Bilstein Chapter 6 (“From the S-IV to the S-IVB”)
 - Development of the third stage
- Bilstein Chapter 7 (“The Lower Stages: S-IC and S-II”)
 - Development of the first and second stages