

Kennedyho kosmické středisko: včera, dnes a zítra



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PREHISTORIE

Cabo Cañaveral



19. července 1950, Bumper 7





24. července 1950



29. července 1950







RODNÝ LIST



Cape Canaveral

Moře u mysu Canaveral

Ostrov Mayaguana (Bahamy)

Ostrov Cumberland (Georgia)

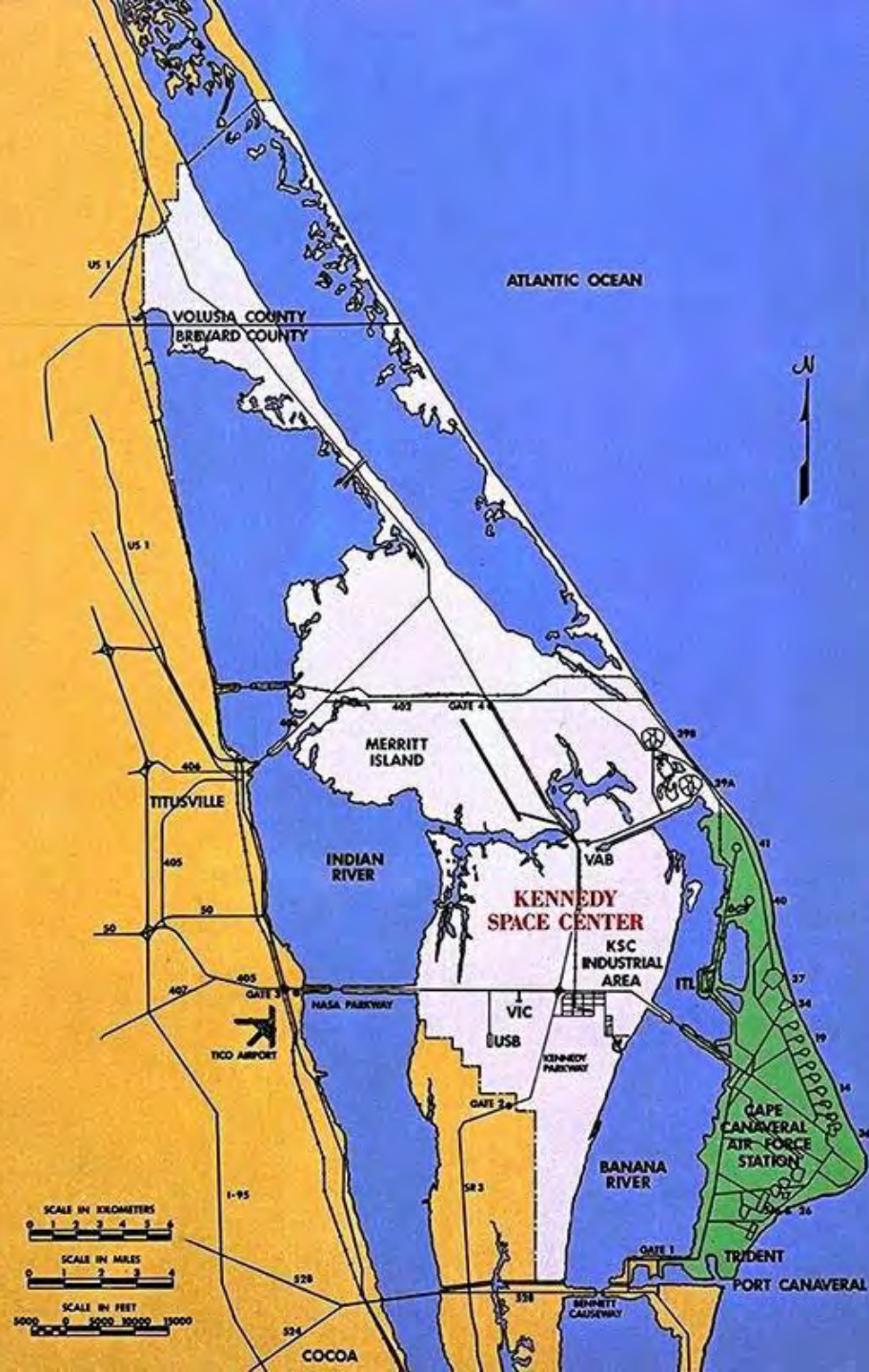
Brownsville (Texas)

White Sands Missile Range (Nové
Mexiko)

Lompoc (Kalifornie)

Vánoční ostrov jižně od Havaje

Havaj



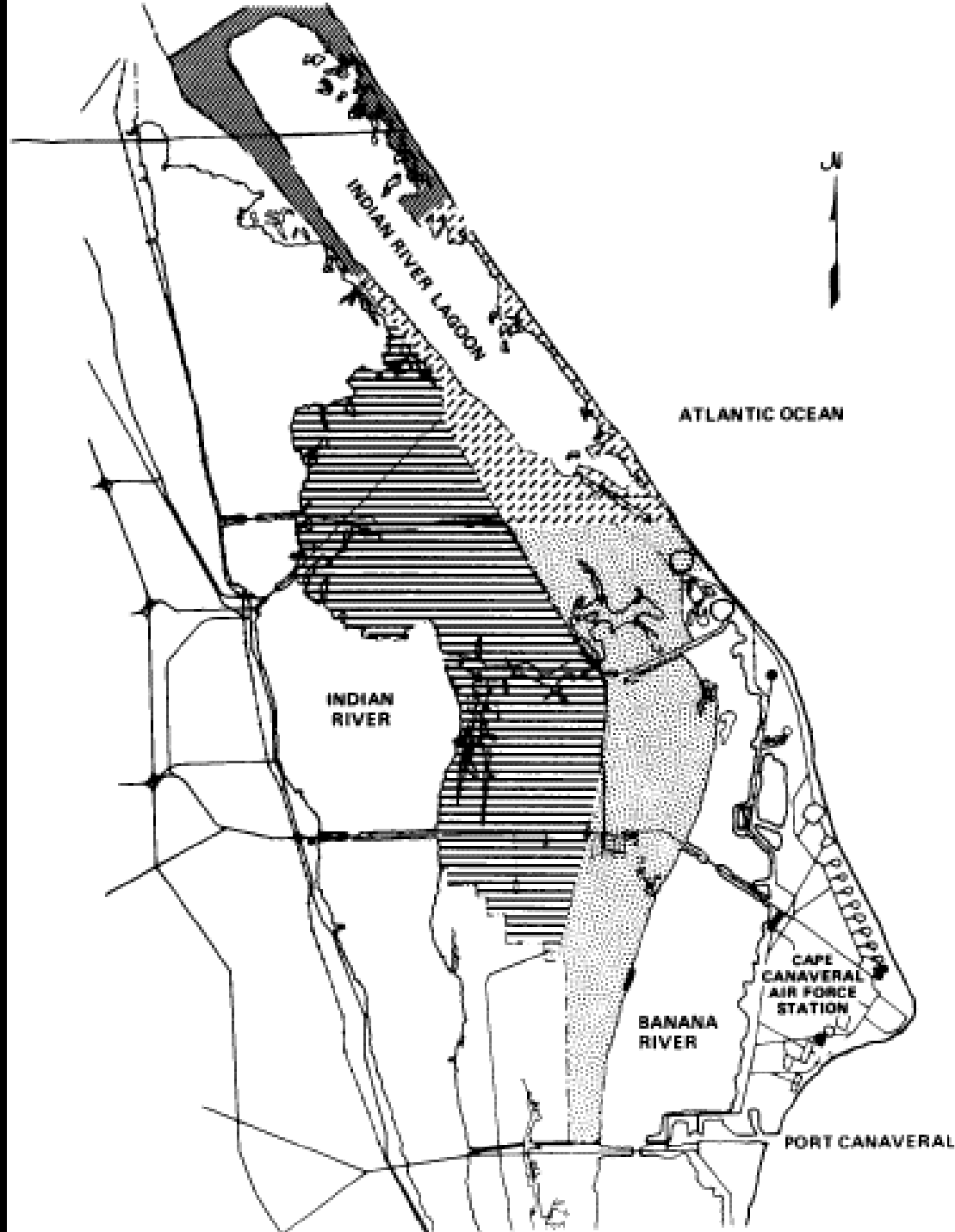
1958 – LOD (Launch Operations Directorate)



1962 – pozemky na ostrově Merritt



340 km² výkup, 230 km² Florida



CAPE CANAVERAL AREA



ACQUISITION – MARCH 1, 1962



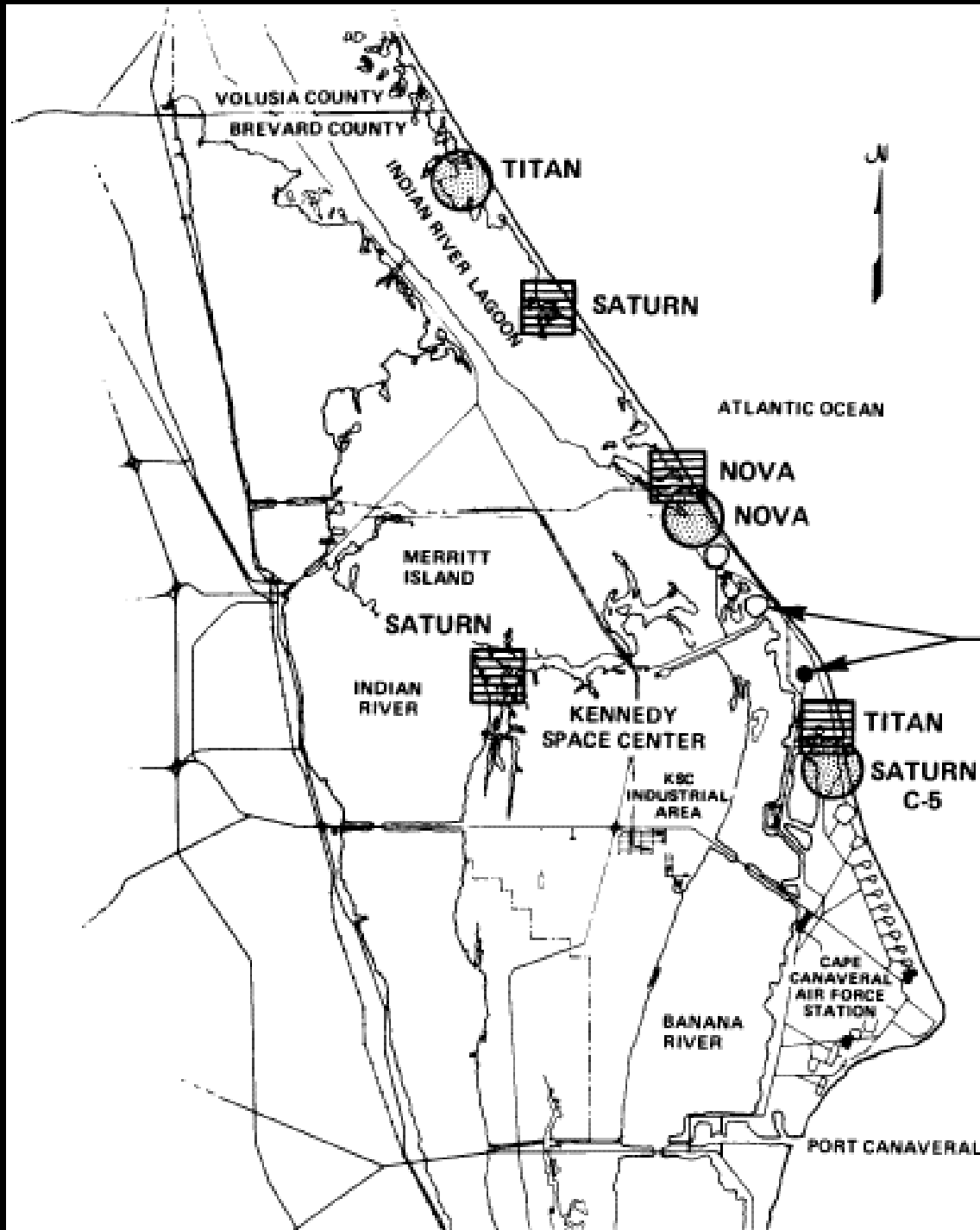
ACQUISITION – JULY 1, 1962



ACQUISITION – AUGUST 1, 1963



ACQUISITION – FEBRUARY 1, 1964



TITAN-SATURN SITING CONTROVERSY



NASA PROPOSED SITES



AIR FORCE PROPOSALS

1. července 1962 – LOC (Launch Operation Center)



Listopad 1962



MILA (Merritt Island Launch Annex)



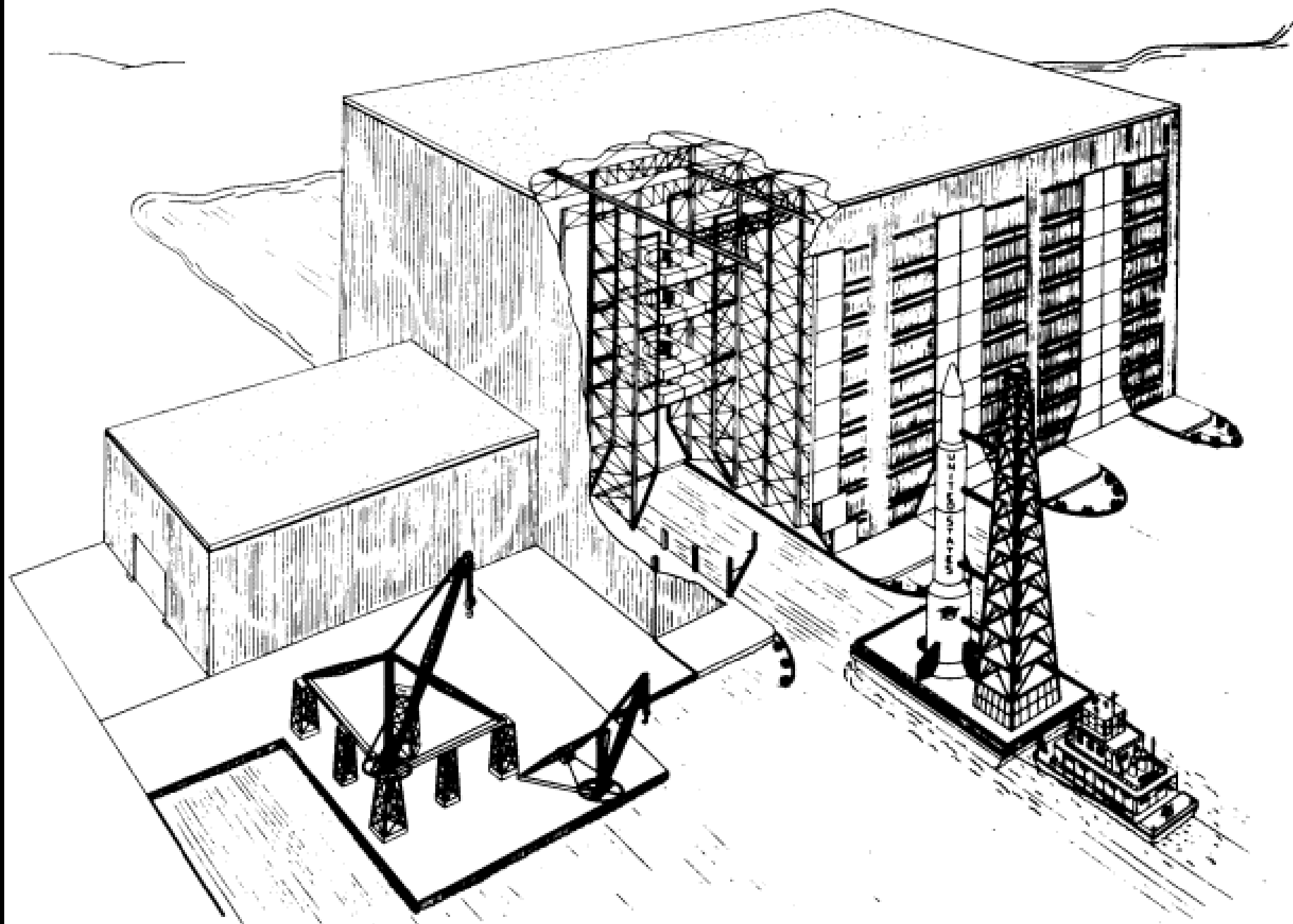


29. listopada 1963 – rozkaz 11129

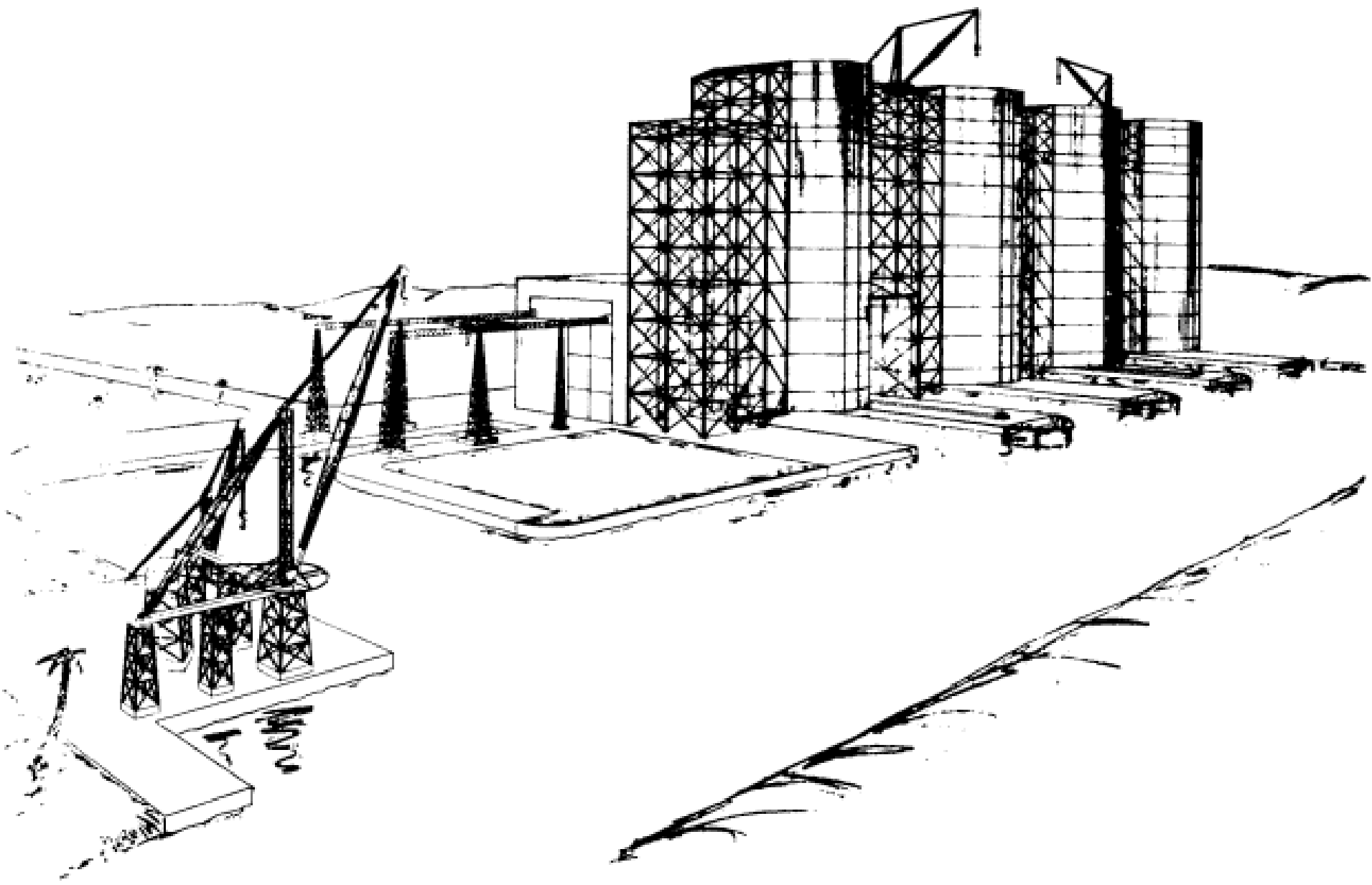


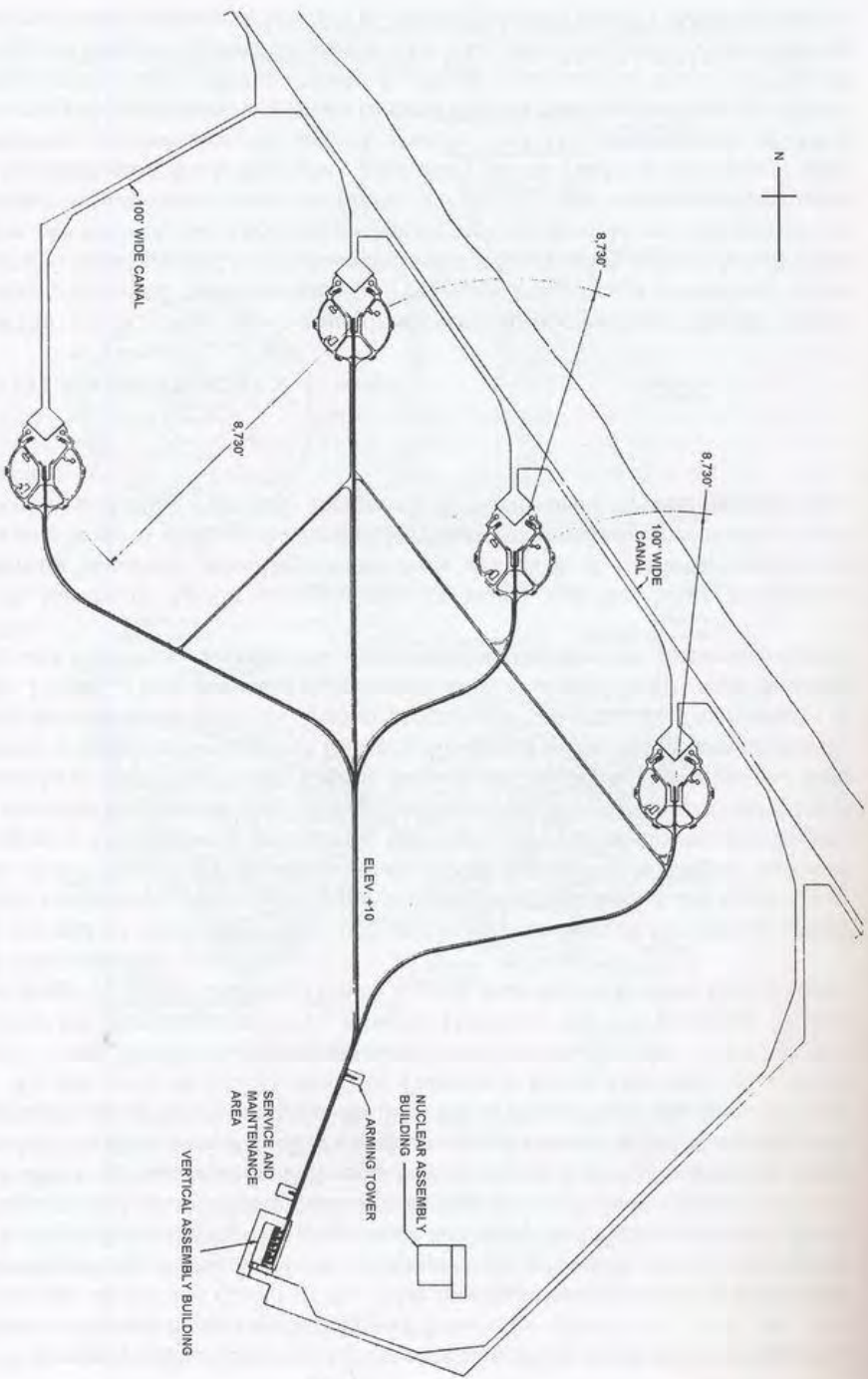
BUDOVÁNÍ





Rozměr, vlhkost





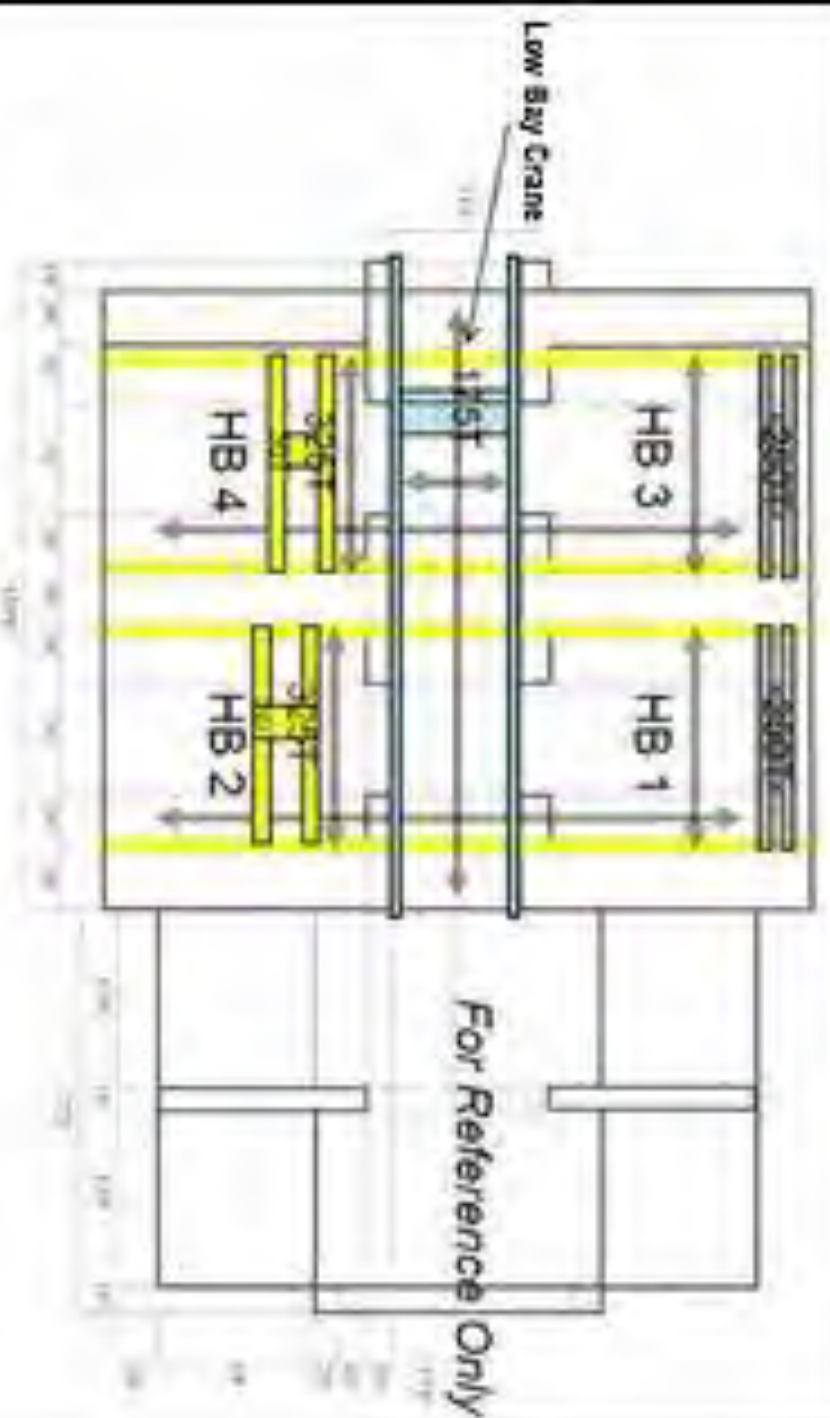












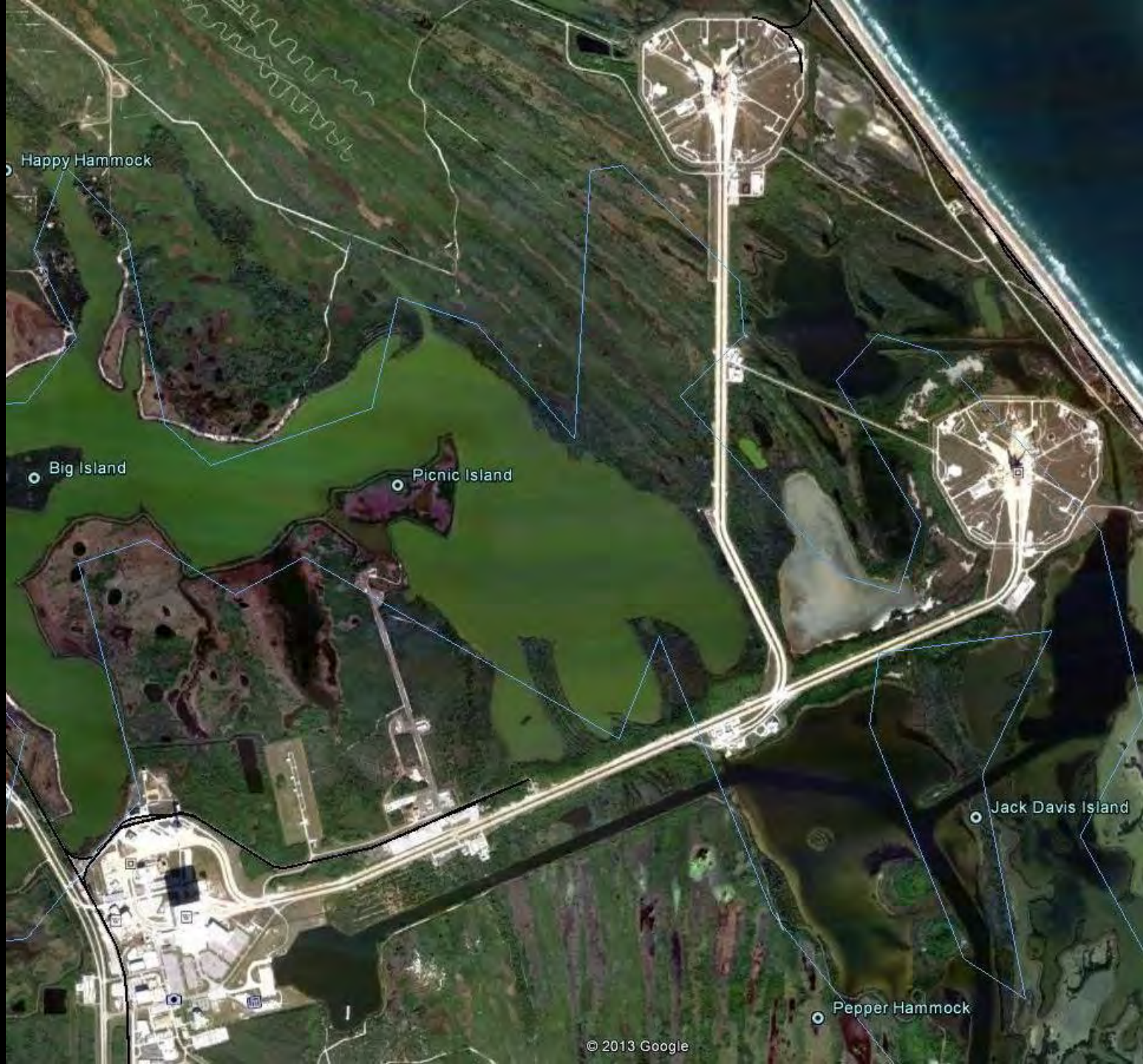
VAB









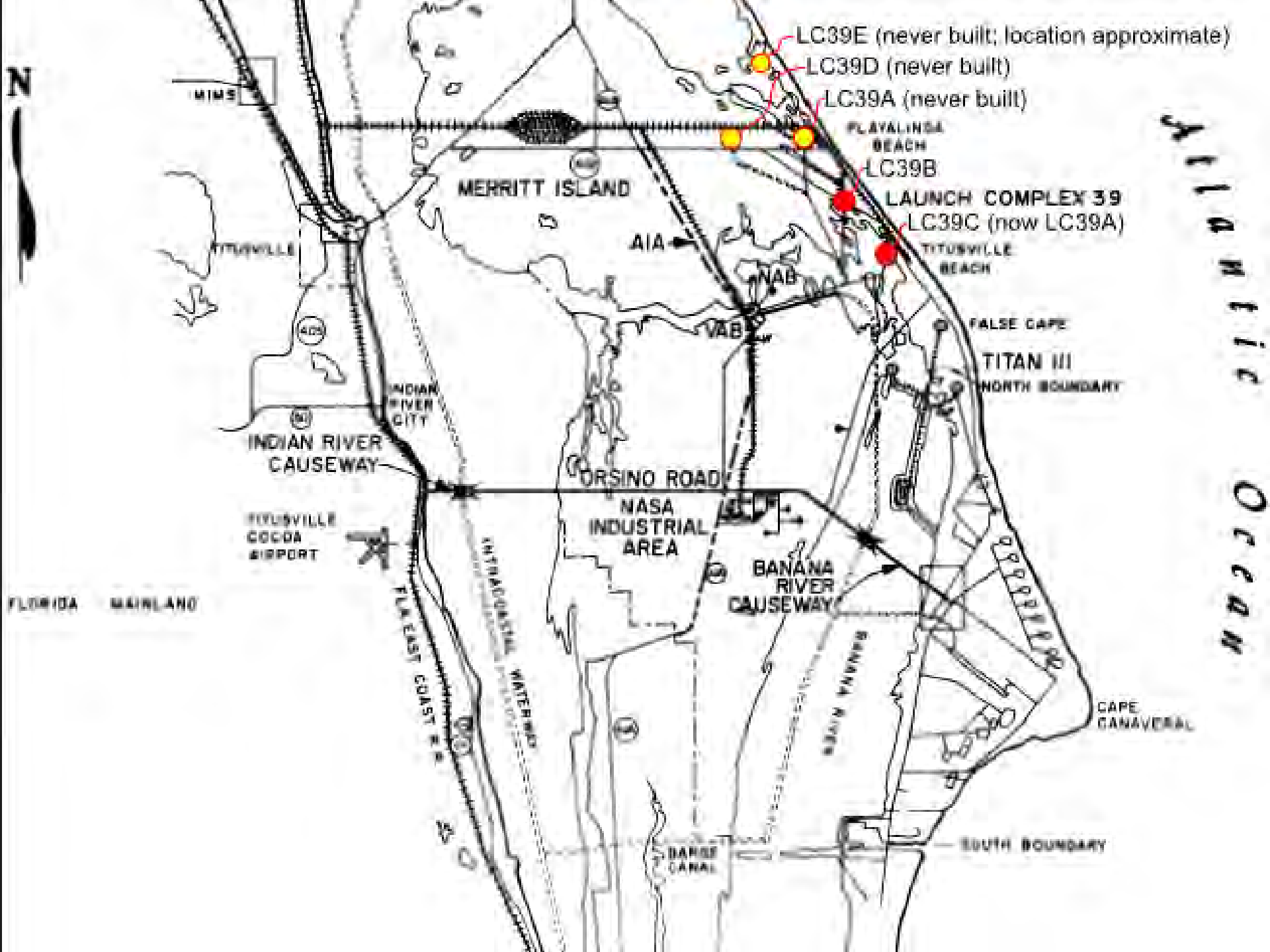




Cramptonway

39A a 39B







VAB (Vehicle Assembly Building)



160 m výška, 158 x 218 m půdorys



Základy 49 metrů



90 tisíc tun oceli

206 km rour (40,6 cm)



Odolá větru až 200 km/h











141 jeřábů



Dveře 140 m (46 a 22 m)



LCC (LAUNCH CONTROL CENTER)







OPF (Orbiter Processing Facility)





Tow-way
from runway.

This is an aerial photograph of an airport terminal complex. The central feature is a large, circular terminal building with a dark, patterned roof. To the left of this central building are two smaller, rectangular buildings labeled 'OPF 1 and 2'. To the right is a large, rectangular building labeled 'VAB'. Above the central building is another rectangular building labeled 'OPF 3'. A road or tow-way runs along the left side of the terminal, with an arrow pointing to it from the label 'Tow-way from runway.'.

OPF 3

VAB

OPF 1 and 2



MLP (MOBILE LAUNCH PLATFORM)





49 x 41 m, výška 7,6 m



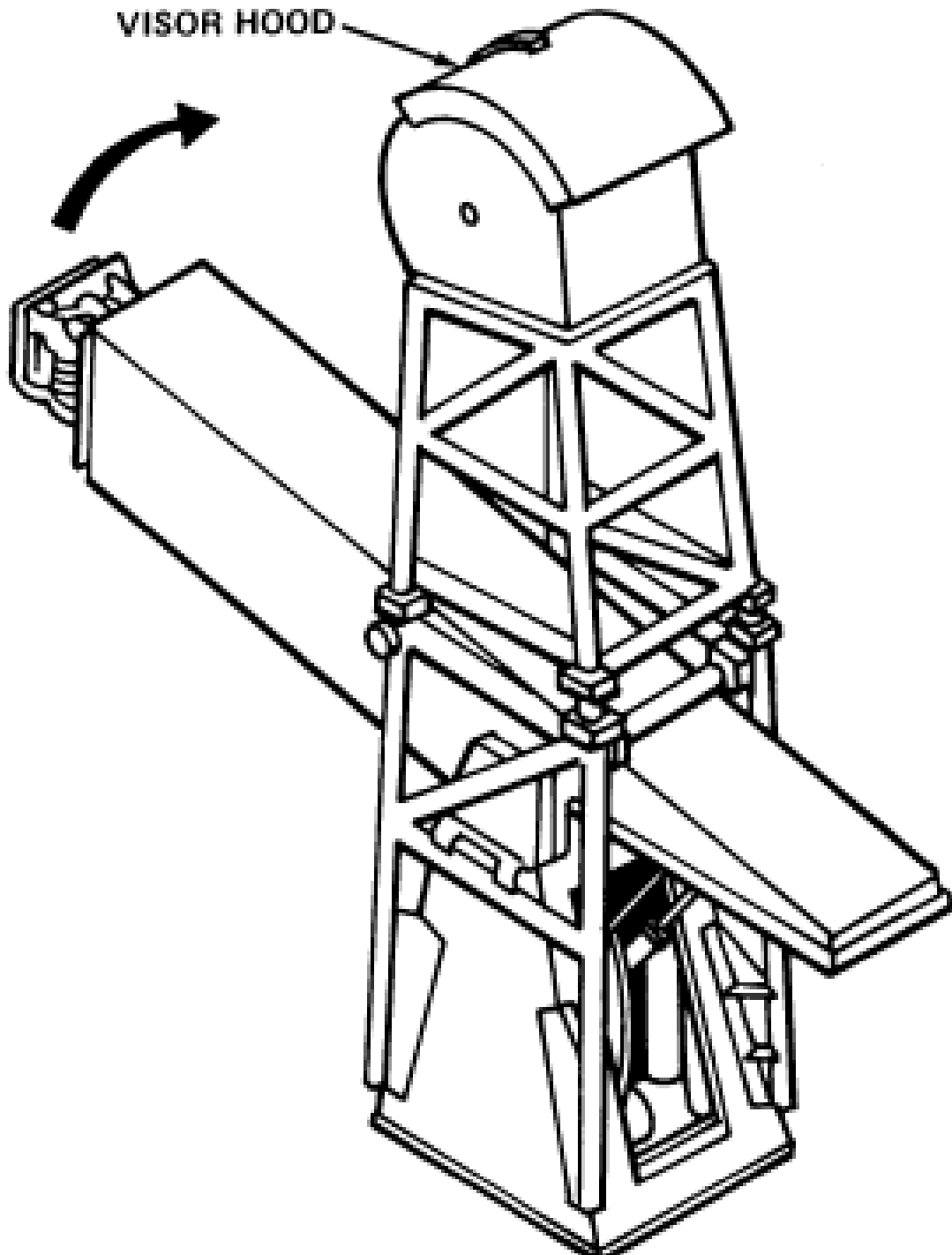
3730 t



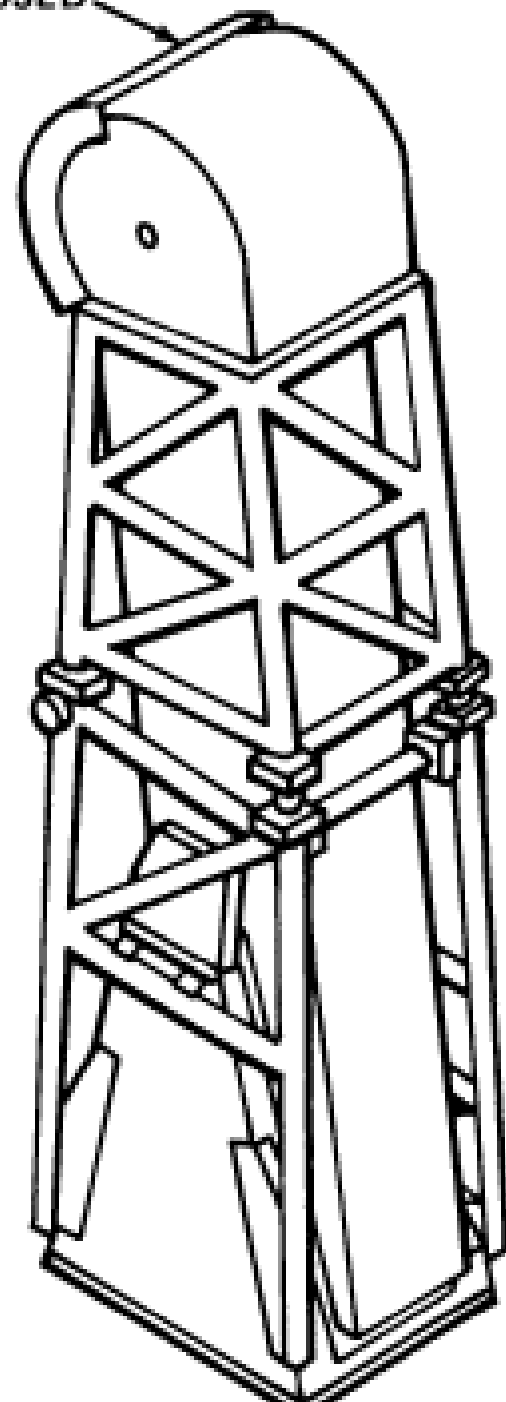
Tail Service Mast (9,4 m výška)



VISOR HOOD



HOOD CLOSED



SERVICE STRUCTURE





**LIQUID OXYGEN
NO SMOKING**



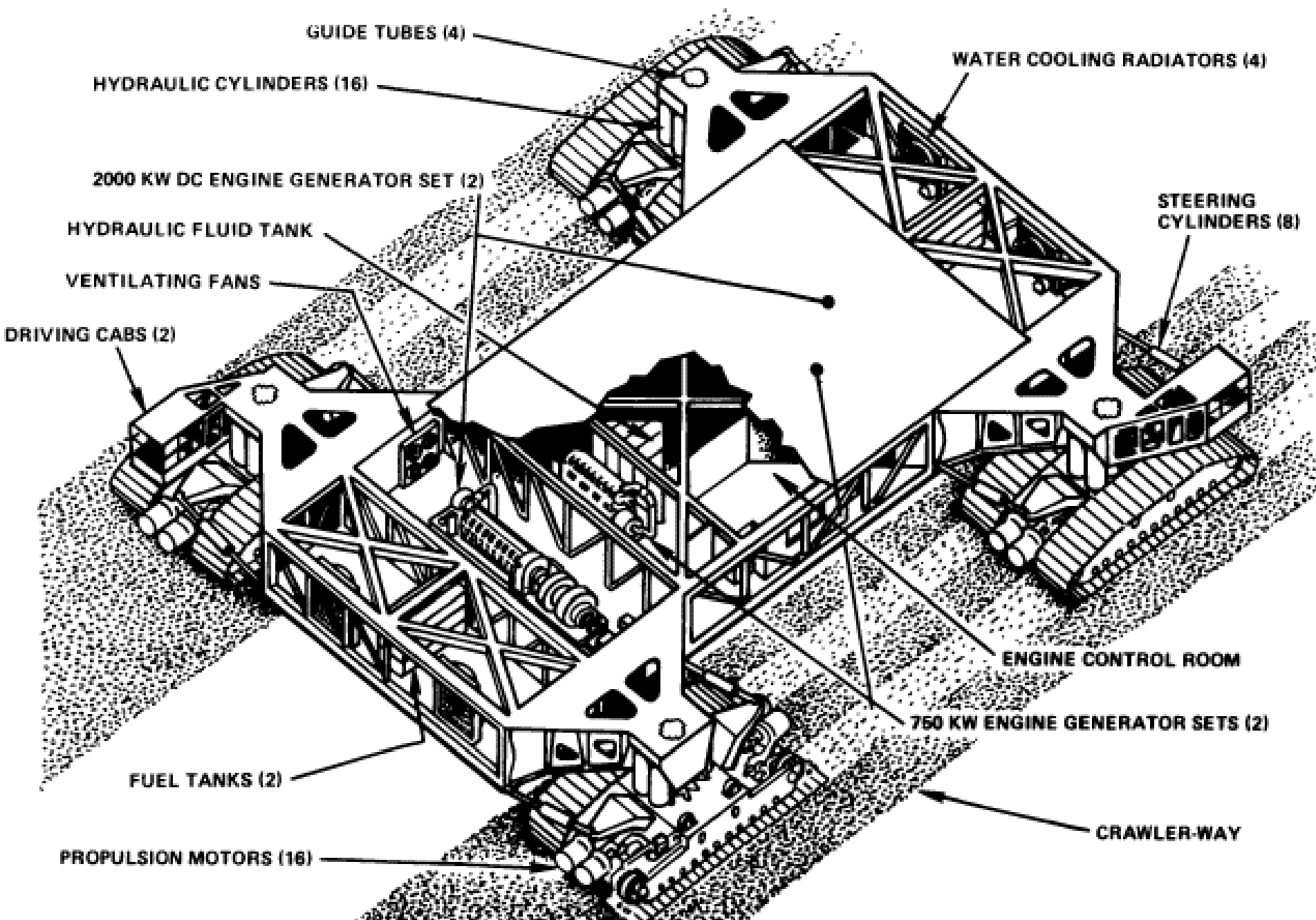
CRAWLER

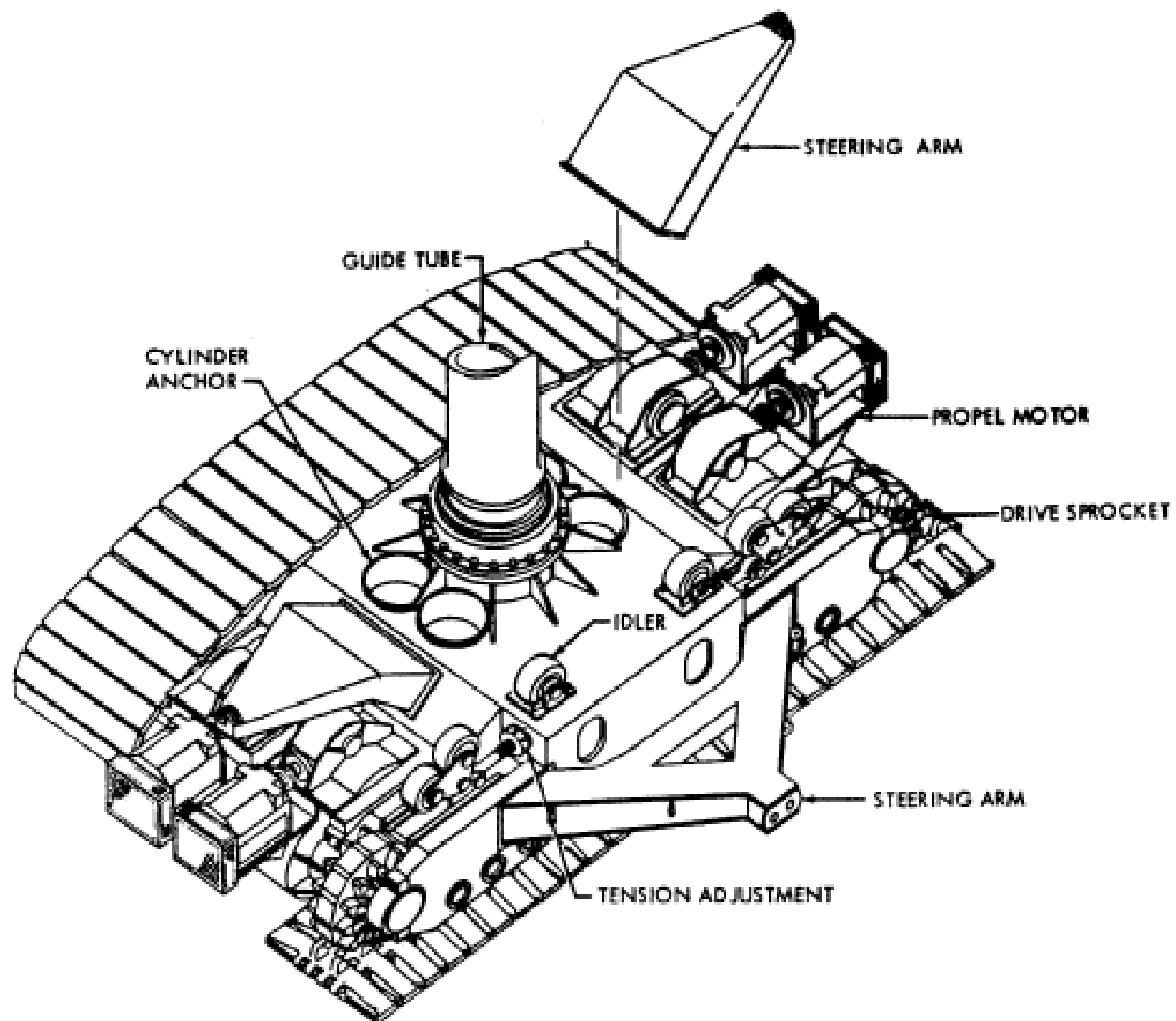






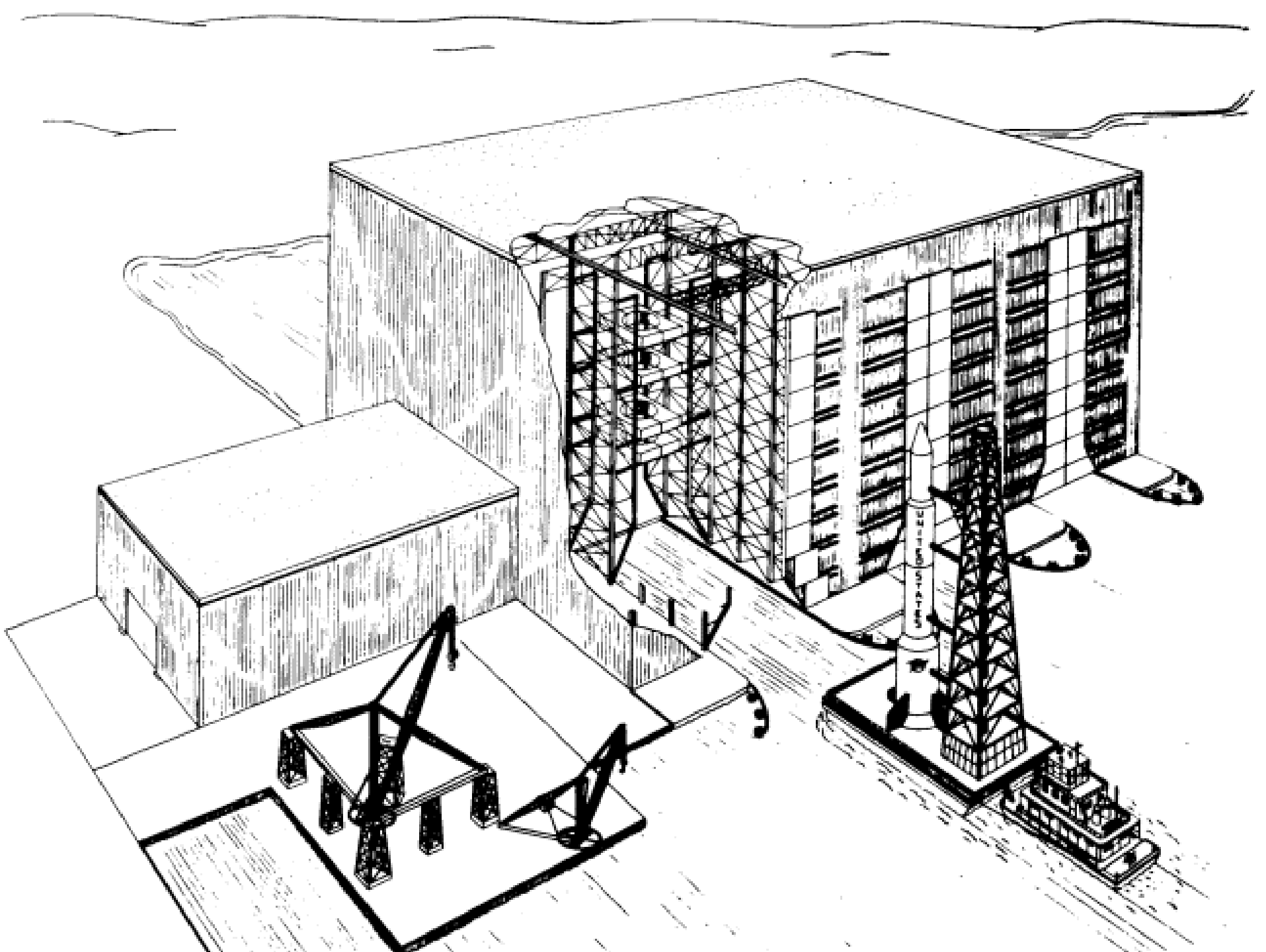
THE CRAWLER-TRANSPORTER







CRAWLERWAY





39,5 m šířka (80 cm písku,
90 cm štěrku, 30 cm asfaltu,
10 cm říčního štěrku)







32 tisíc tun



KOMPLEX 39







APOLLO PROGRAM 1967-1973



SPACE SHUTTLE PROGRAM 1981-2011

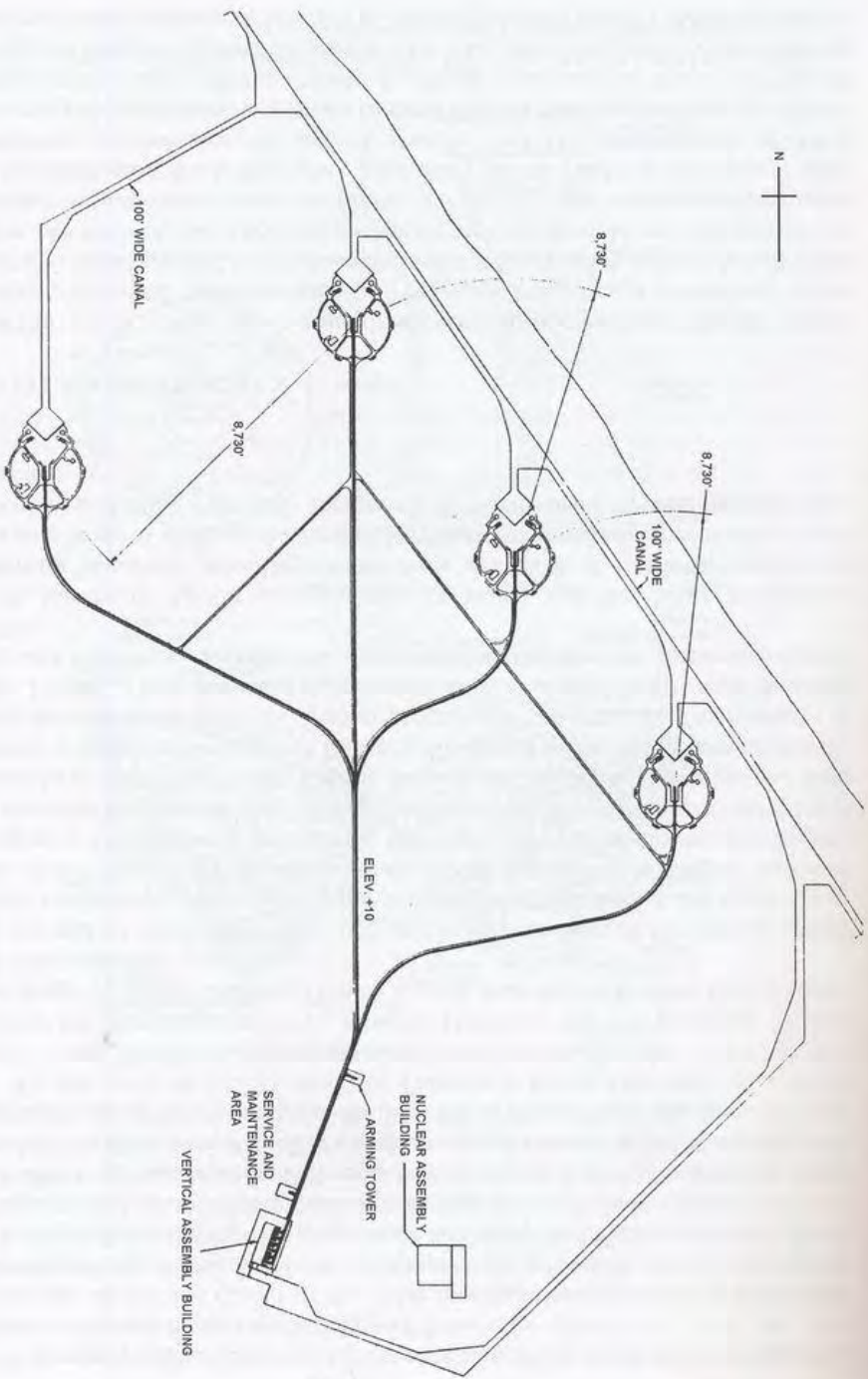


SLF (Shuttle Landing
Facility)





NAB (NUCLEAR ASSEMBLY
BUILDING)



NERVA ENGINE

HOT BLEED CYCLE

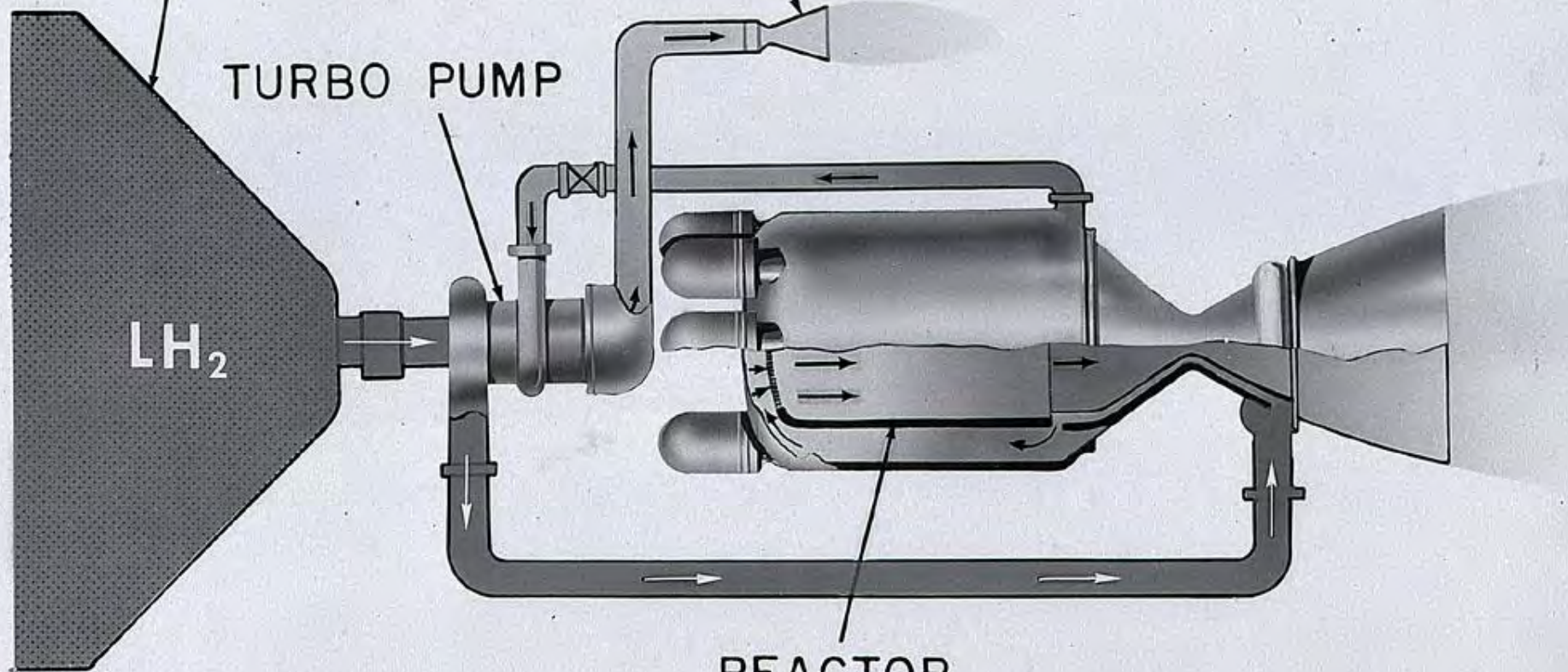
PROPELLANT TANK

TURBINE EXHAUST

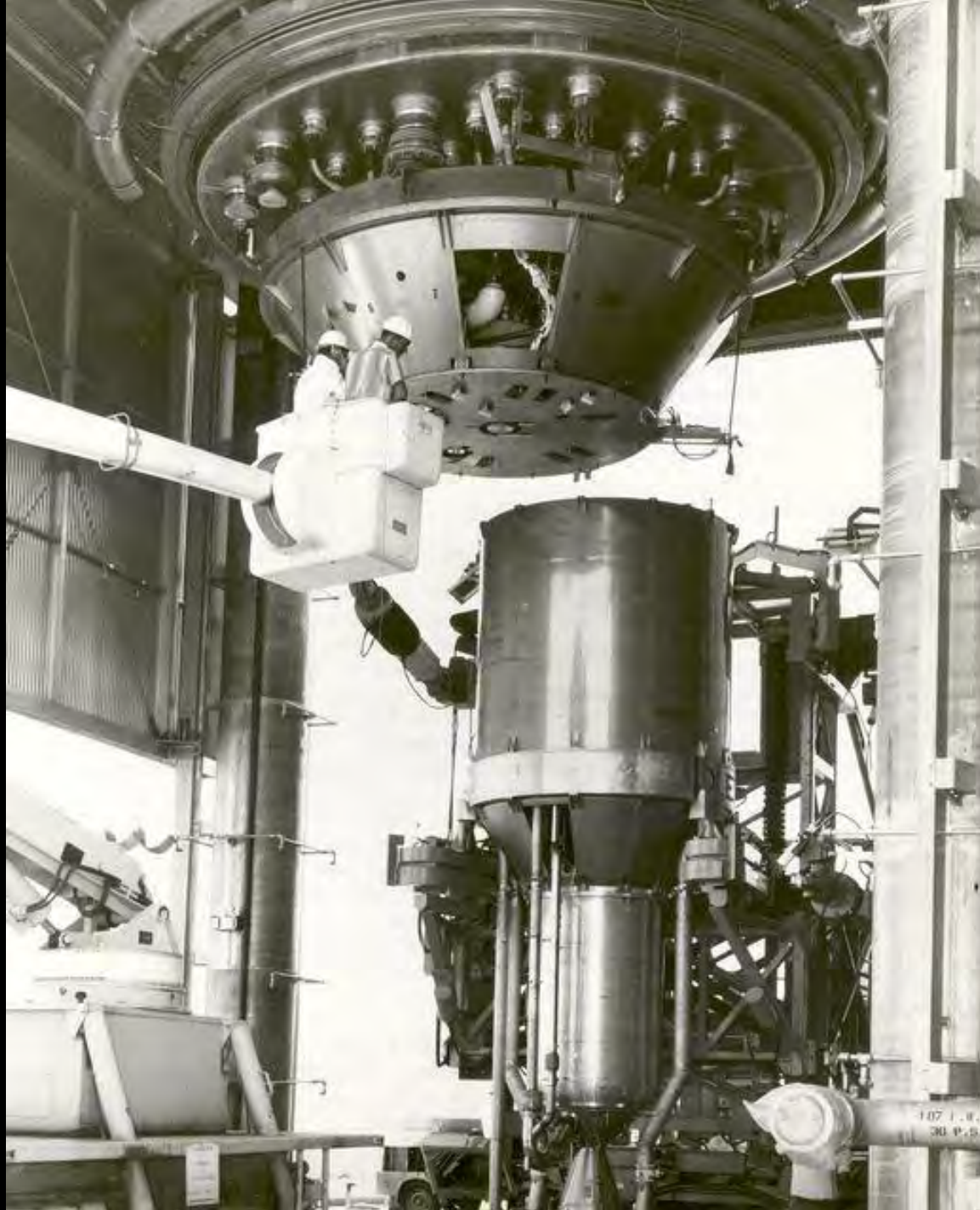
TURBO PUMP

LH_2

REACTOR













REACTOR IN FLIGHT TEST RIFT

NUCLEAR

S II DUMMY

SIC

SATURN V

NUCLEAR
STAGE

300 MI.

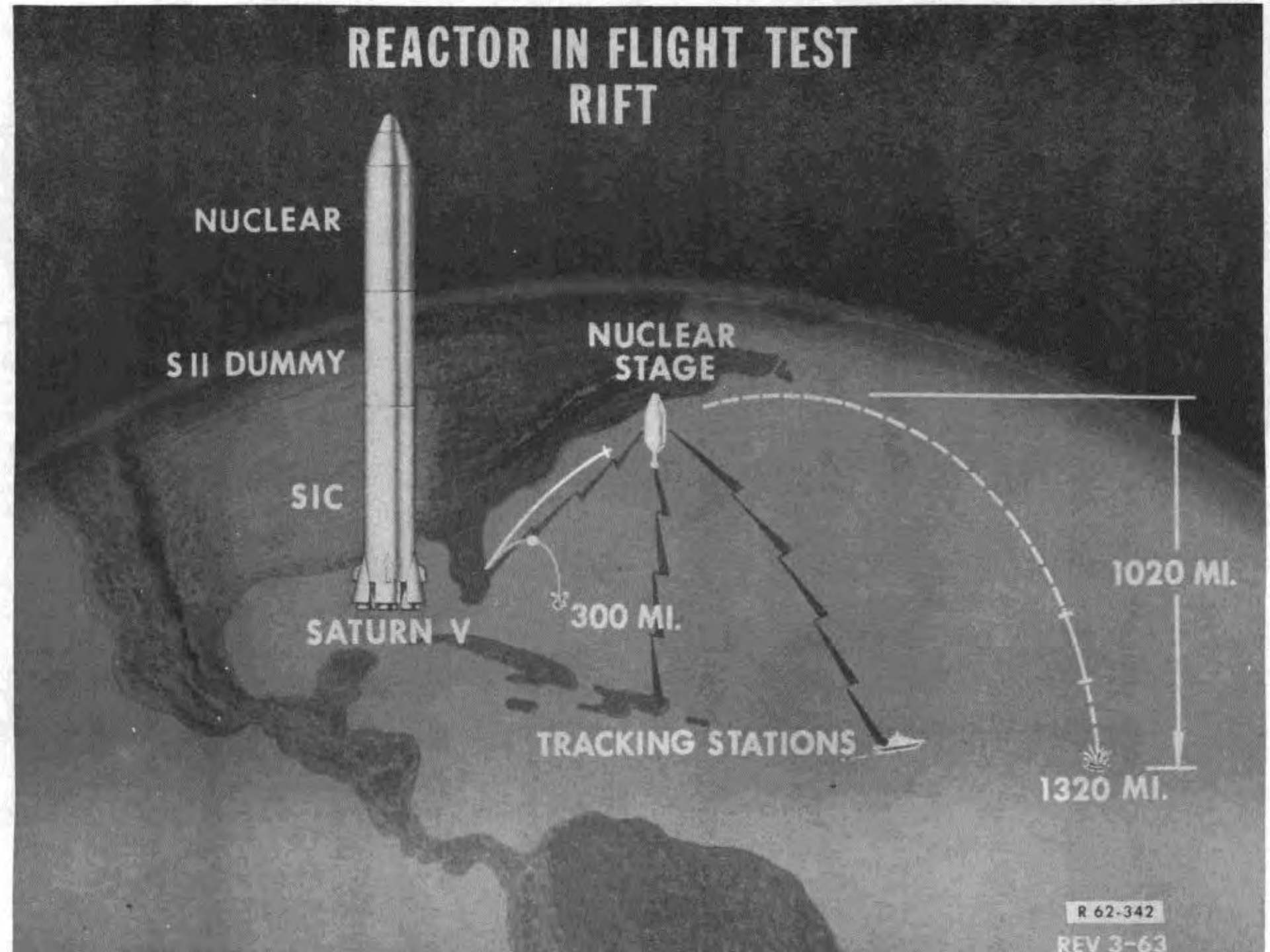
TRACKING STATIONS

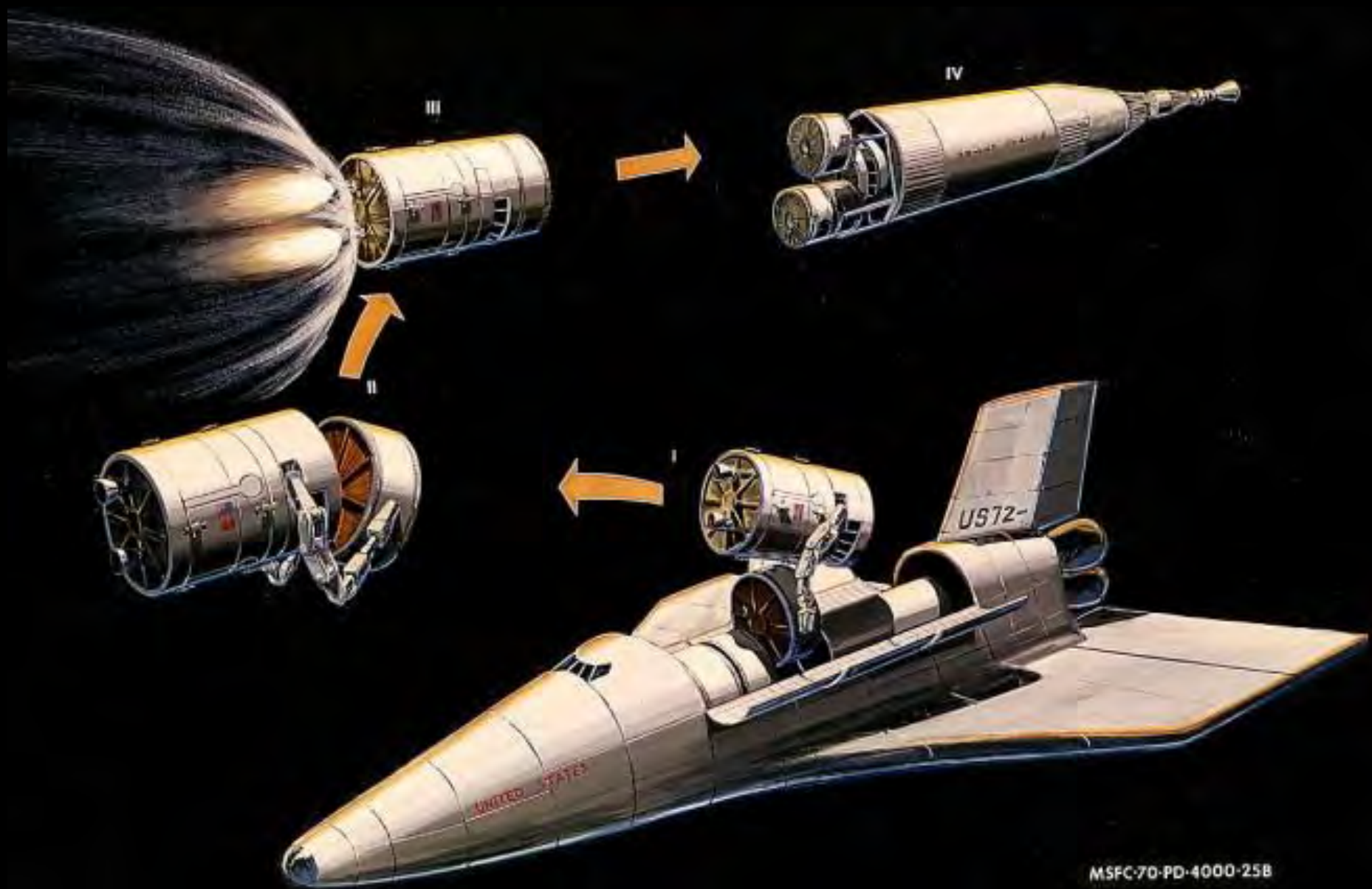
1020 MI.

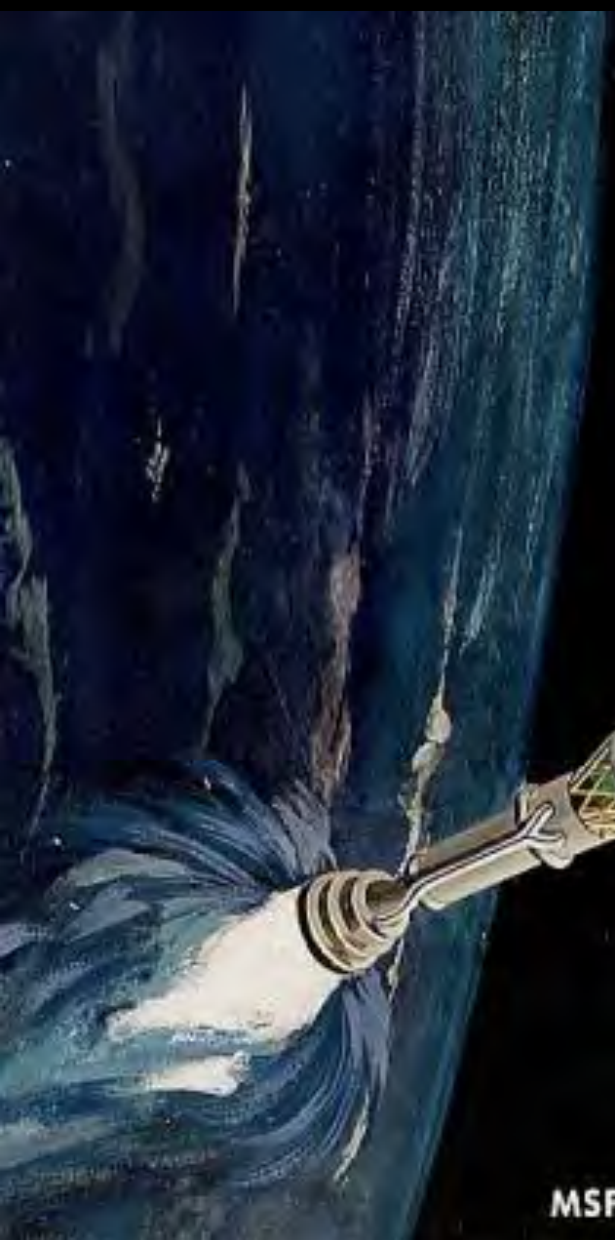
1320 MI.

R 62-342

REV 3-63







NUCLEAR SHUTTLE

NFSD PHASE II BASELINE CONFIGURATION

MSFC-70-PD-4000-2B

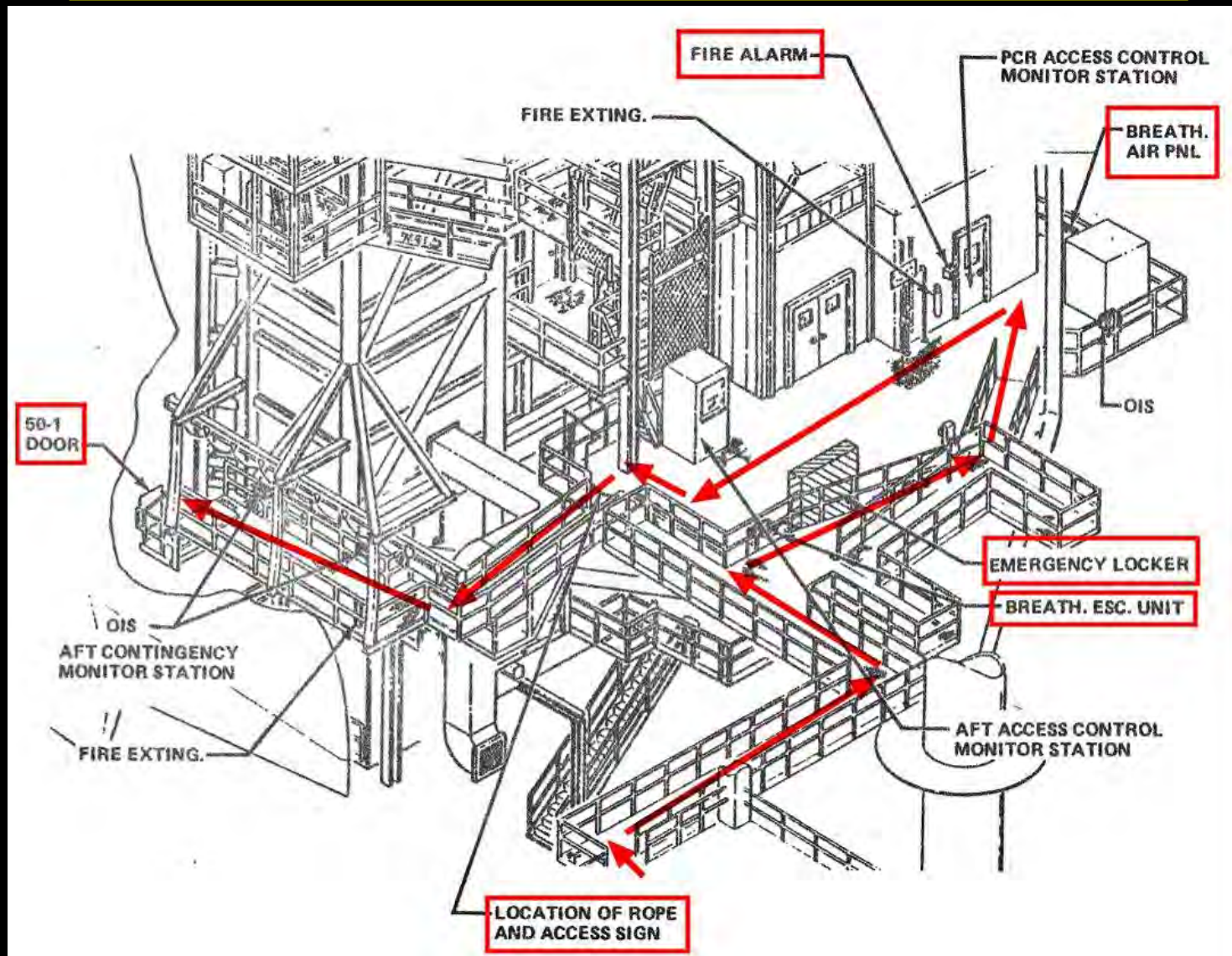


NEHODY A HAVÁRIE

16. května 1968 – William Bates (46)



19. března 1981 – John Bjornstad, Forrest Cole a Nick Mullon



5. května 1981 – Anthony Hill (22)



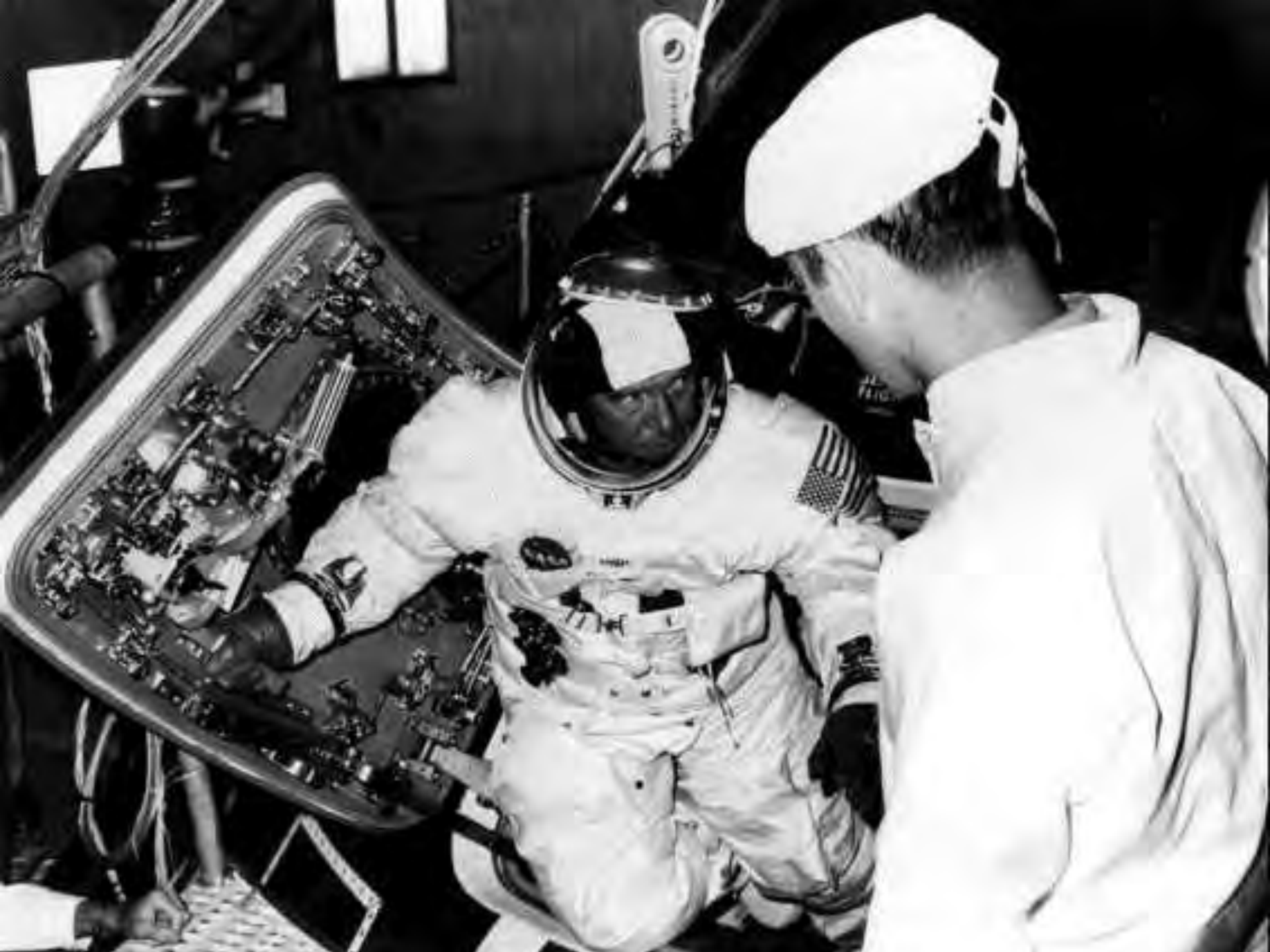
14. března 2011 – James Vanover



APOLLO









RAKETOPLÁNY



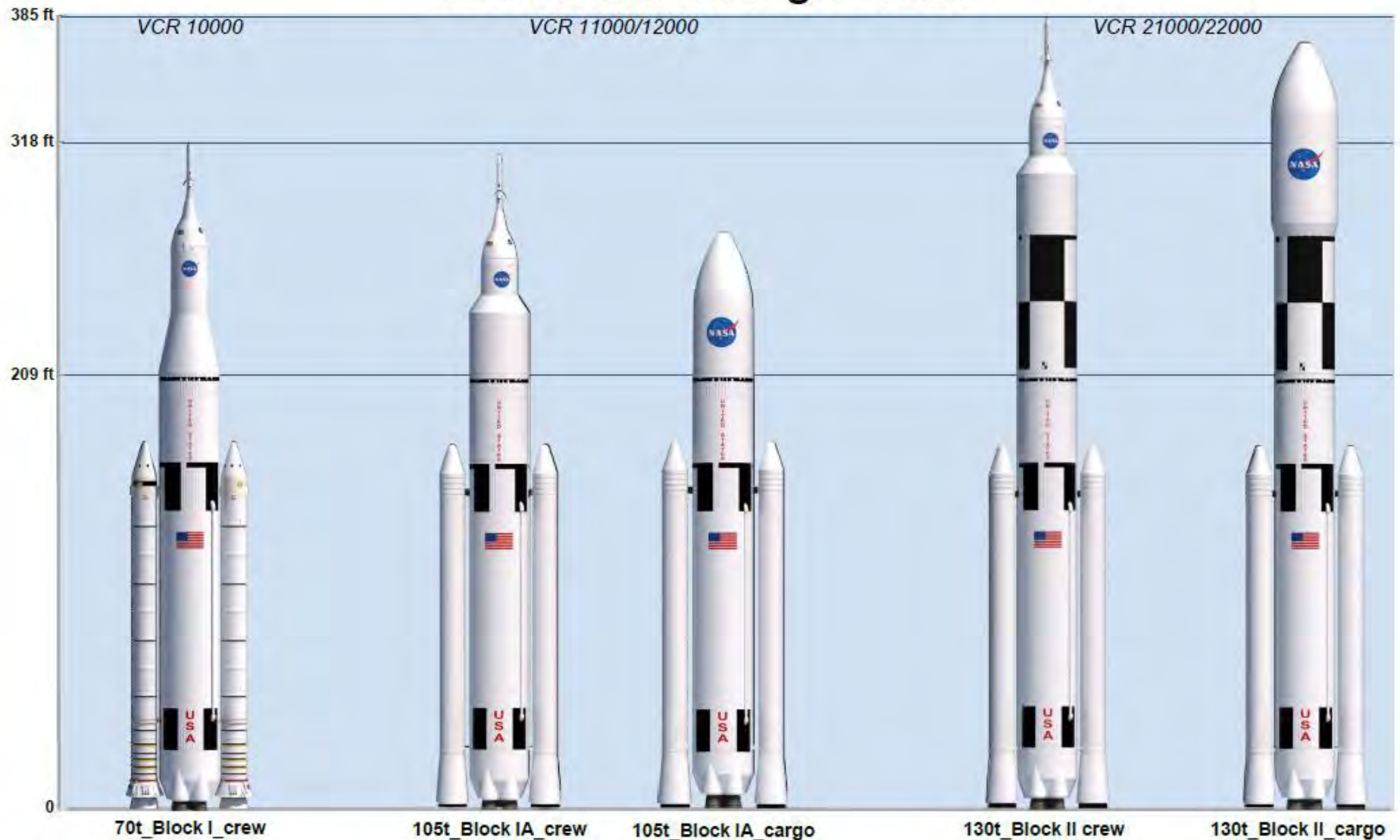


SLS

(SPACE LAUNCH SYSTEM)



SLS Vehicle Configurations

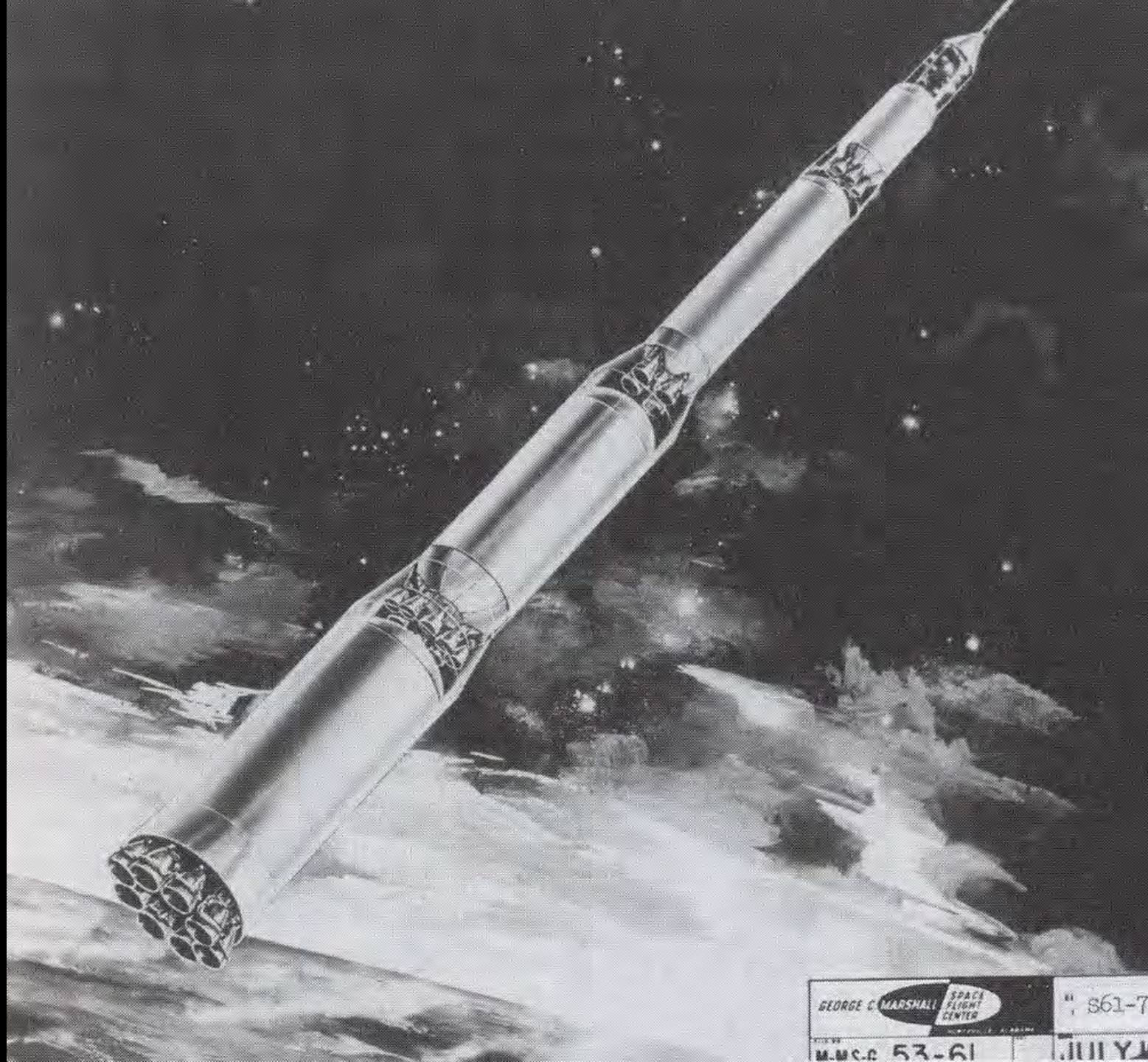




NEREALIZOVANÉ

Nova





 GEORGE C. MARSHALL SPACE FLIGHT CENTER HUNTSVILLE, ALABAMA	"S61-7
M.M.C. 53-61	JULY 11

Shuttle-C



Advanced Launch System



National Launch System



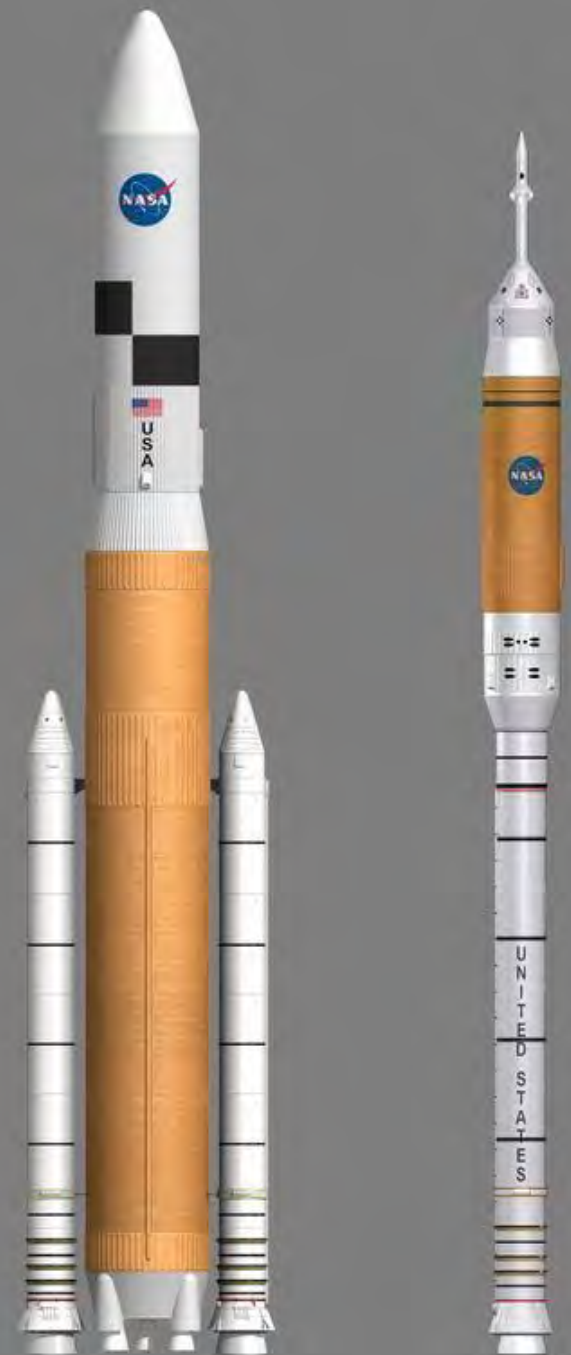
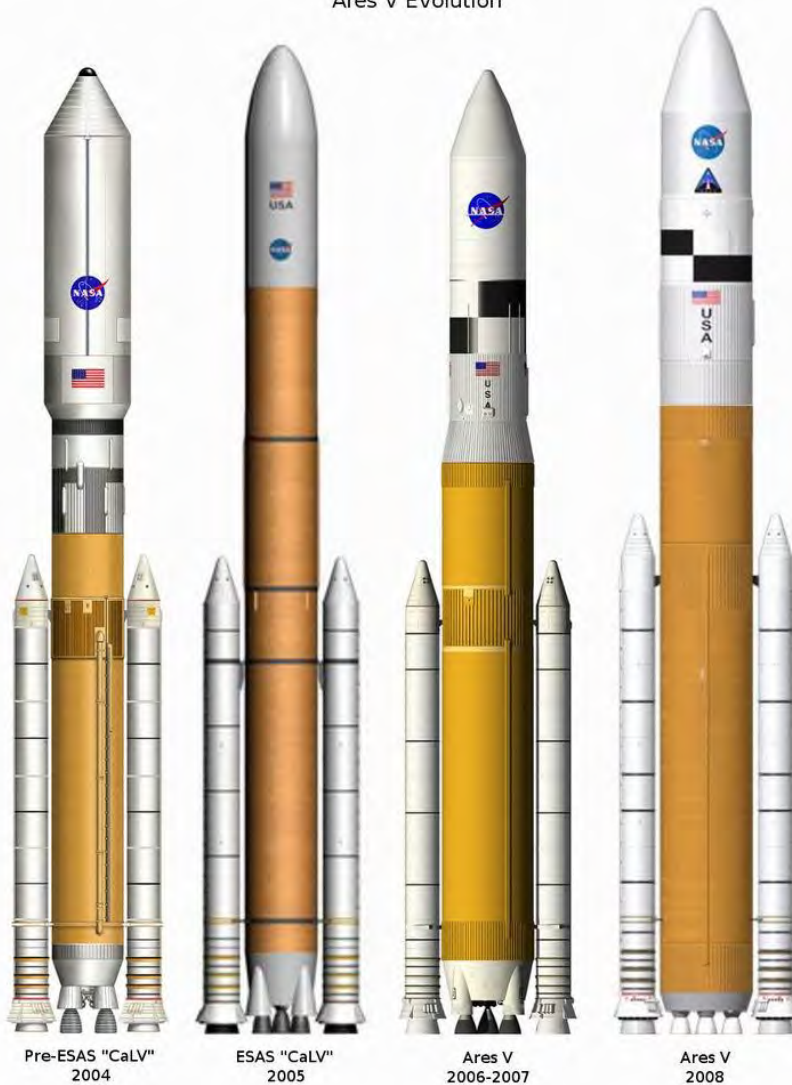


Jupiter

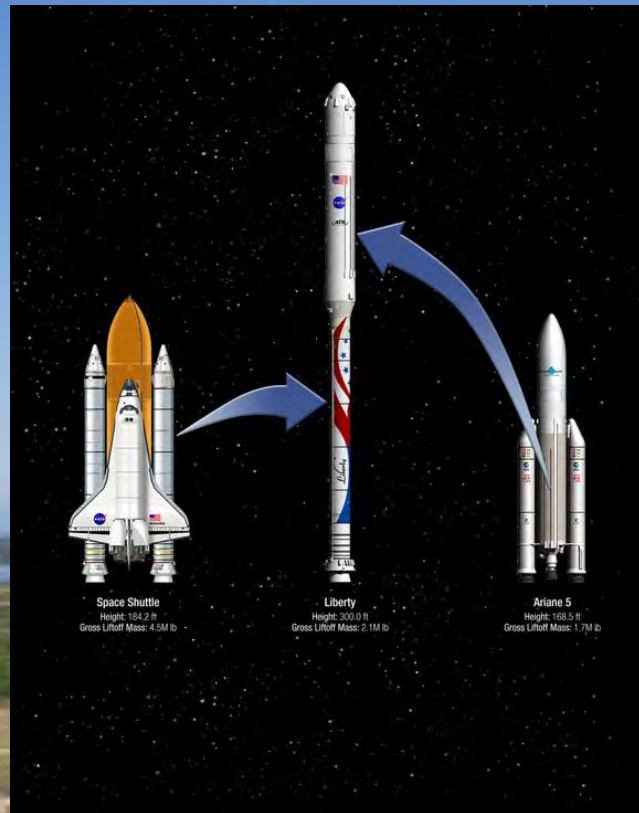


Ares

Ares V Evolution



Liberty



CONSTELLATION

Testovací let 28. října 2009







ML-1







PŘÍRODNÍ REZERVACE









NÁRODNÍ PAMÁTKA

Národní seznam historických míst (21. ledna 2000)

Launch Complex 39 (24. května 1973)

Central Instrumentation Facility

Crawlerway

Launch Complex 39–Pad A

Launch Complex 39–Pad B

Launch Control Center

Missile Crawler Transporter Facilities

Operations and Checkout Building

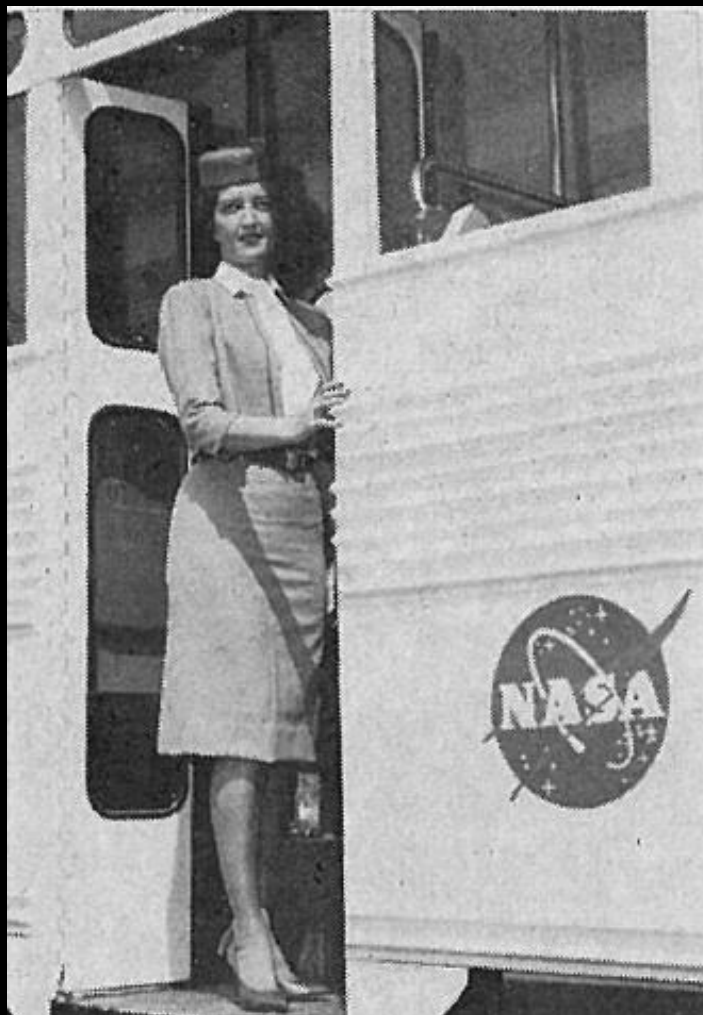
Press Site–Clock and Flag Pole

Vehicle Assembly Building–High Bay and Low Bay

Headquarters Building (1. prosince 2000)

ATRAKCE

Březen 1964



Zatím jen plán.

Prozatímní TIC

(Tourist Information Center)



Říjen 1964 Kongres USA.



3. ledna 1965 – průjezdy KSC



*První den 1936 osob,
575 automobilů.*

Duben 1965



*Průměrně 2100 osob, 29 států
USA, Belgie a Německo.*

Říjen 1965



Stotisící návštěvník.

15. července 1966



15 autobusů, dvě zastávky.

Počátkem roku 1967



Srpen 1967



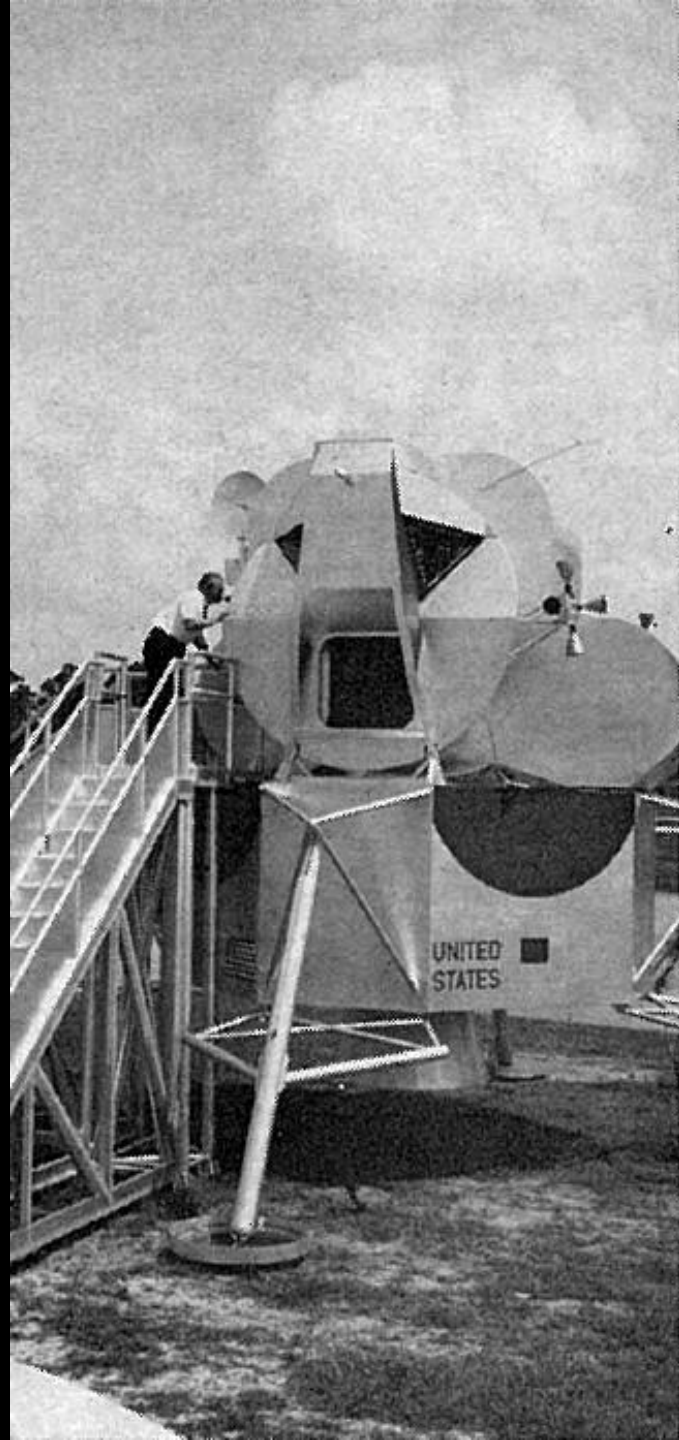


Srpen 1967



Květen 2013





Zahrada raket



Tři kusy Titan I



2010















Delaware North Companies Parks (1995)



1,5 mil. návštěvníků, 700 zaměstnanců



Do května 2020, opce deset let.



Atlantis - 100 mil. USD









QUO VADIS?

< 8000 zaměstnanců



2005 – 25 tisíc; 1968 – 26,5 tisíce.



39B











39A



Blue Origin



8. září 2013



Crawlerway



VAB





OPF





Stratolaunch



Lynx/X-Cor



Shiloh

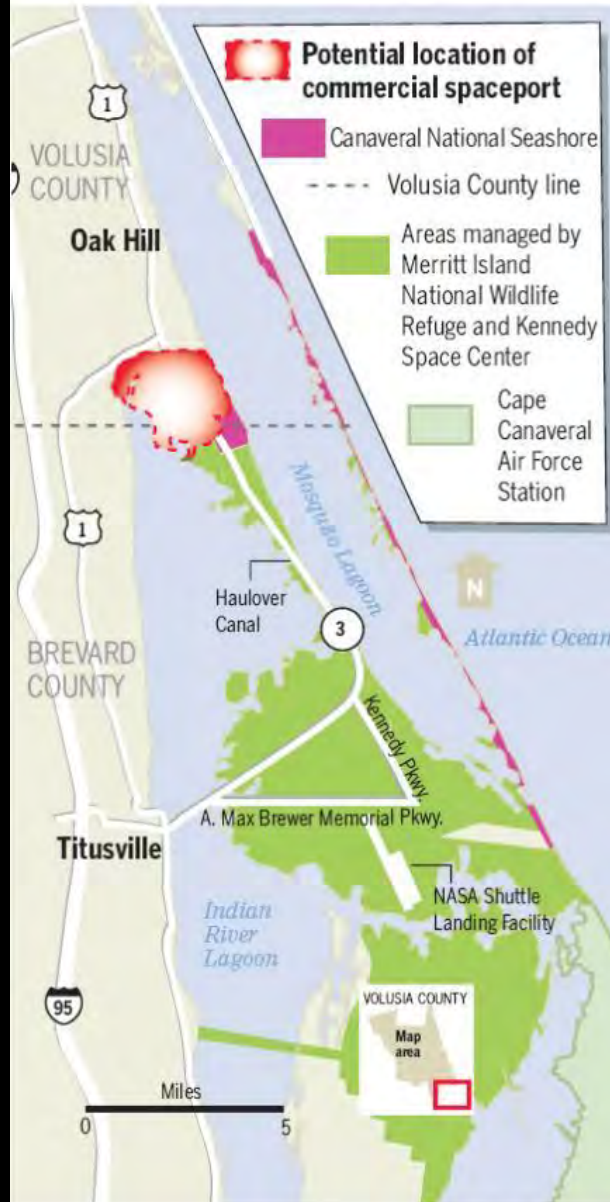
Notional Launch Complex Configuration

This represents a notional configuration for a 150-acre contiguous site for two launch pads and associated support facilities. Shown at right is a generic heavy-lifts liquid booster launch pad with a typical horizontal processing facility and propellant facilities. Shown at the left are facilities for a medium-class rocket. The notional complex could be separated into two non-contiguous 75-acre sites. Alternative site locations will be evaluated along with optimal site configurations during environmental studies and analysis for the proposed complex.

SPACE FLORIDA

brph
ARCHITECTS | ENGINEERS

Possible site for private spaceport





Budoucnost?



Dotazy?



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