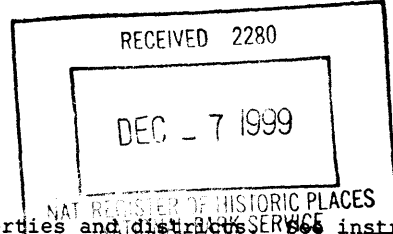


1645



United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form

This form is for use in nominating or requesting for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by Marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPA Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Launch Control Center
other names/site number 8BR1685

2. Location

street & number NASA, John F. Kennedy Space Center not for publication
city or town Kennedy Space Center vicinity
state Florida code FL county Brevard code 009 zip code 32899

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this X nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property X meets does not meet the National Register criteria. I recommend that this property be considered significant X nationally statewide locally. (See continuation sheet for additional comments.)

Fernando M. Luma, NASA FEDERAL PRESERVATION OFFICER; Nov. 19, 1999
Signature of certifying official/Title Date

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
State of Federal agency and bureau

In my opinion, the property X meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

Berge W. King SPO 8/20/98
Signature of certifying official/Title Date

Florida State Historic Preservation Office, Division of Historical Resources
State or Federal agency and bureau

4. National Park Service Certification

I hereby certify that the property is:
 entered in the National Register. Ralph L. Ferguson Signature of the Keeper 1/21/2000 Date of Action
See continuation sheet.
 determined eligible for the National Register.
See continuation sheet.
 determined not eligible for the National Register.
 removed from the National Register.
 other, (explain:)

Launch Control Center
Name of Property

Brevard, FL
County and State

5. Classification

Ownership of Property (Check as many boxes as apply.)	Category of Property (Check only one box.)	Number of Resources within Property (Do not include previously listed resources in the count.)	
<input type="checkbox"/> private	<input checked="" type="checkbox"/> building(s)	Contributing	Noncontributing
<input type="checkbox"/> public-local	<input type="checkbox"/> district	<u>1</u>	<u>0</u> buildings
<input type="checkbox"/> public-State	<input type="checkbox"/> site	<u>0</u>	<u>0</u> sites
<input checked="" type="checkbox"/> public-Federal	<input type="checkbox"/> structure	<u>0</u>	<u>0</u> structures
	<input type="checkbox"/> object	<u>0</u>	<u>0</u> objects
		<u>1</u>	<u>0</u> Total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)
John F. Kennedy Space Center

Number of contributing resources previously listed in the National Register
1

6. Function or Use

Historic Functions
(Enter categories from instructions.)
INDUSTRY/PROCESSING/EXTRACTION:
communications facility
TRANSPORTATION: air-related
DEFENSE: aerospace facility

Current Functions
(Enter categories from instructions.)
INDUSTRY/PROCESSING/EXTRACTION: communications facility
TRANSPORTATION: air-related
DEFENSE: aerospace facility

7. Description

Architectural Classification
(Enter categories from instructions.)
MODERN MOVEMENT:
International Style

Materials
(Enter categories from instructions.)
foundation CONCRETE
walls CONCRETE
roofs ASPHALT
other
other

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Launch Control Center
Name of Property

Brevard, FL
County and State

8. Statement of Significance

Applicable National Register Criteria
(Mark "x" in one or more boxes for the criteria qualify the property for National Register Listing.)

Areas of Significance
(Enter categories from instructions.)

- A** Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B** Property is associated with the lives of persons significant in our past.
- C** Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D** Property has yielded, or is likely to yield, information important in prehistory or history.

OTHER: SPACE EXPLORATION
COMMUNICATIONS
ARCHITECTURE

Period of Significance
1965-1975

Significant Dates
1965

Significant Person
(Complete if Criterion B is marked above.)
N/A

Criteria Considerations

- (Mark "x" in all the boxes that apply.)
- A** owned by a religious institution or used for religious purposes.
 - B** removed from its original locations.
 - C** a birthplace or grave.
 - D** a cemetery.
 - E** a reconstructed building, object or structure.
 - F** a commemorative property.
 - G** less than 50 years of age or achieved significance within the past 50 years.

Cultural Affiliation
N/A

Architect/Builder
UNKNOWN

Narrative Statement of Significance

(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

- Previous documentation on file (NPS):**
- preliminary determination of individual listing (36 CFR 67) has been requested
 - previously listed in the National Register
 - previously determined eligible by the National Register
 - designated a National Historic Landmark
 - recorded by Historic American Buildings Survey # _____
 - recorded by Historic American Engineering Record # _____

- Primary location of additional data:**
- State Historic Preservation Office
 - Other State agency
 - Federal agency
 - Local government
 - University
 - Other
- Name of repository:
NASA: Kennedy Space Center

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Narrative Description Launch Control Center

Year Built: 1965

Facility Name: Launch Control Center

Facility Number: K6-900

Functional Name: Missile Control Facility (LC-39)

Technological Areas Supported: Central control for vehicle checkout and launch.

Narrative Description of Facility Capabilities & Functions: Designed to control prelaunch and launch operations (NASA 1967:10-69; Butowsky 1981:27).

The Launch Control Center (LCC) is a reinforced concrete building on a mat foundation. It is 385 feet long by 166 feet wide by 76 feet high, with a total of 213,250 square feet of floor space. The building was designed to control the prelaunch and launch operations of the Saturn V and Saturn IB vehicles in the Apollo program. It has since been modified and refurbished to support Space Shuttle launches and is still in use (NASA 1967:10-69-70; Butowsky 1981:54).

Office, shop, and laboratory areas are primarily on the first two floors of the structure. The telemetry checkout station is on the second floor. It has a net area of 5,614 square feet and serves as a telemetry relay station as well as a checkout for various stages of the spacecraft. Four firing bays are on the third floor, one for each of the high-bay cells in the VAB. However, only three of the bays are outfitted. The outfitted firing bays house equipment for launch operations and closed circuit television for supervision and control of all launch operations. Each of the equipped firing rooms has approximately 450 consoles containing the controls and displays required during spacecraft checkout. Fifteen display systems are required in each firing room. The firing rooms include a raised floor that permits delivery of cooling air to all operating equipment and provides adequate space for equipment interconnection and cabling. The side of the firing rooms facing the launch pads provides direct visual observation (Butowsky 1981:54).

The LCC, constructed in 1965, was designed in the International Style which started with architects Walter Gropius, Ludwig Mies van der Rohe, and Le Corbusier in Europe in the late 1920s. The style gained popularity in the 1930s which tapered off in the late 1940s. By the late 1960s and early 1970s

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it again gained favor for its sleek, modern lines. Typical examples of this style are characterized by:

a complete absence of ornament and by forms in which effects of mass and weight are minimized for the sake of an effect of pure volume; compositionally, a balance of unlike parts is more often than not substituted for axial symmetry. Flat roofs, smooth and uniform wall surfaces, windows with minimal exterior reveals...and windows that turn the corner of the building are among the means by which the effect of volume is obtained. Skeleton construction of steel or reinforced concrete is typical... Much use is made of the cantilever principle...Horizontalness - most marked in the ribbon window - and rectilinearity predominate (Whiffen 1992:247-249).

The LCC displays the lack of ornament, effect of volume, flat roof, ribbon windows, skeleton construction of reinforced concrete, cantilevered upper floors, and horizontalness which are hallmarks of the International Style. However, the LCC is symmetrical unlike many International Style structures. The LCC largely retains the same configuration as when constructed and continues to control prelaunch and launch operations.

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Narrative Statement of Significance Launch Control Center

The LCC contributes to the Historic Cultural Resources of the John F. Kennedy Space Center, Florida, under the historic context Apollo Program 1961-1975 and each of its three subcontexts under property type F.3, Launch Operation Facilities. It is significant at the national level under NRHP Criterion A in the area of space exploration and communications. The LCC is also significant under Criterion C under architecture. Because this structure has achieved significance within the past 50 years and is of exceptional importance in the areas of space exploration, communications, and architecture, Criteria Consideration G applies. As the building designed to control the prelaunch and launch operations of the Saturn V and Saturn IB vehicles, it was vital to the operation of the Apollo program. Although modified with updated technology, the LCC still performs these vital operations for the Space Shuttle launches. It has substantially maintained its integrity of design, materials, workmanship, feeling, setting, location, and association, as an intact resource still serving as the "brain" of Launch Complex 39.

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**National Register of Historic Places
Continuation Sheet**

Section number 9 Page 1

Bibliography

Launch Control Center

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1994 Facts: John F. Kennedy Space Center.

Butowsky, Dr. Harry A.

1981 Reconnaissance Survey: Man in Space. U.S. Department of the
Interior, National Park Service, Washington, D.C. November.

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1974 Technical Facilities Catalog Volume II [NHB 8800.5A (II)].
October.

1995 Facility Utilization Charts: NASA Facilities at KSC, CCAFS, and
PAFB. July 1.

Whiffen, Marcus

1992 American Architecture Since 1780: A Guide to the Styles. Revised
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Continuation Sheet**

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**Verbal Boundary Description
Launch Control Center**

The boundary extends from and parallel to the footprint of the Launch Control Center approximately 10 ft.

Boundary Justification

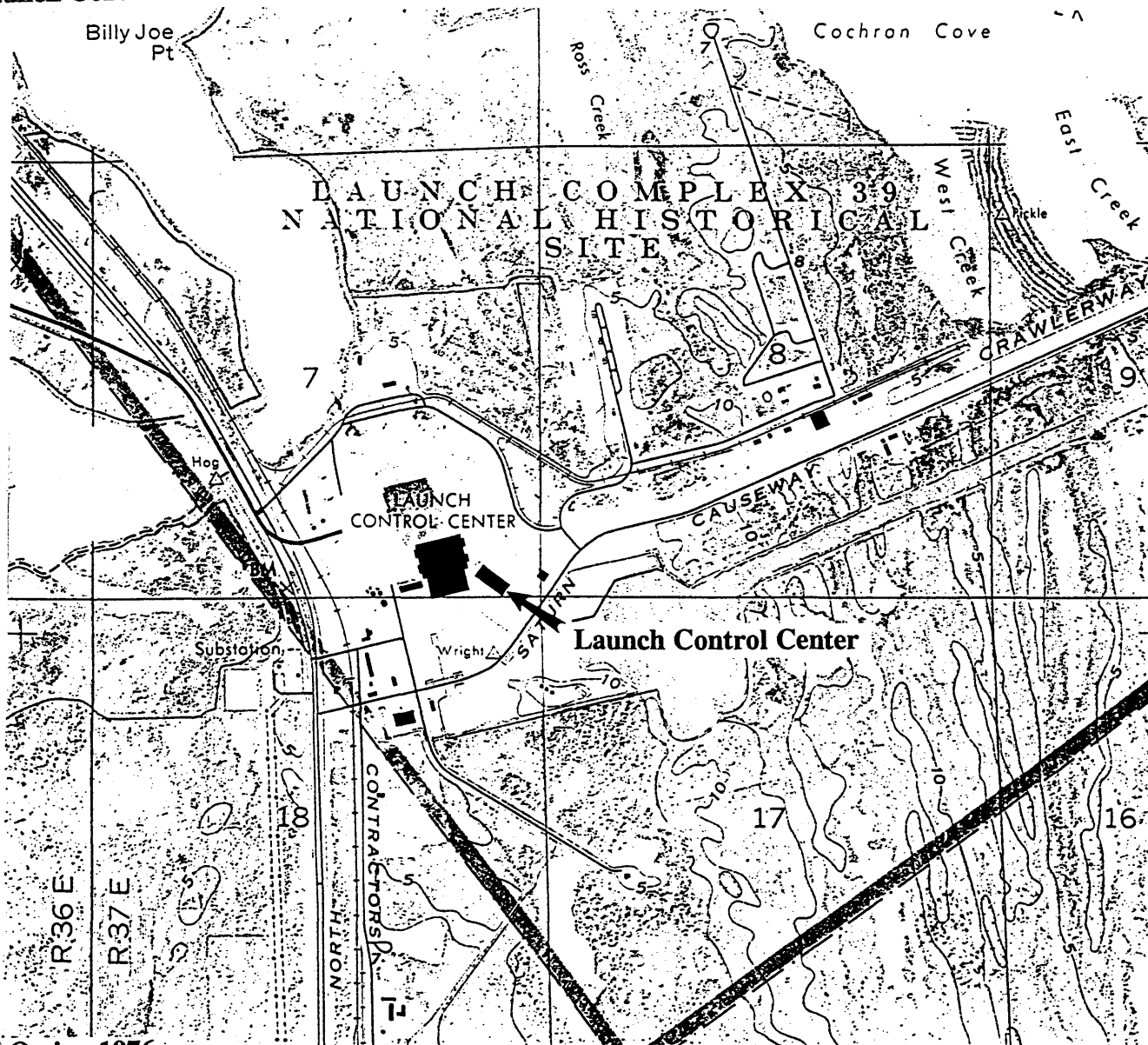
This includes the LCC, historically required for its functions, as well as the enclosed elevated bridge that links the LCC to the VAB.

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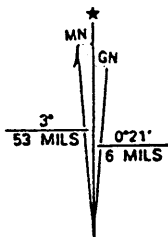
National Register of Historic Places Continuation Sheet

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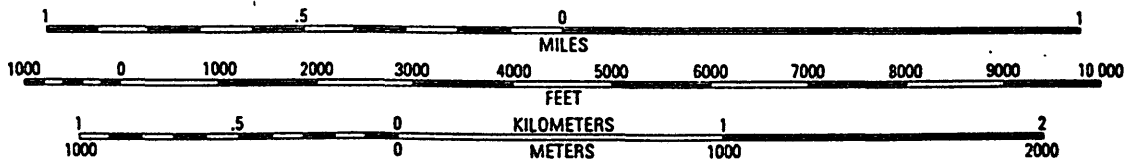
USGS Map Launch Control Center



Orsino 1976



SCALE 1:24 000



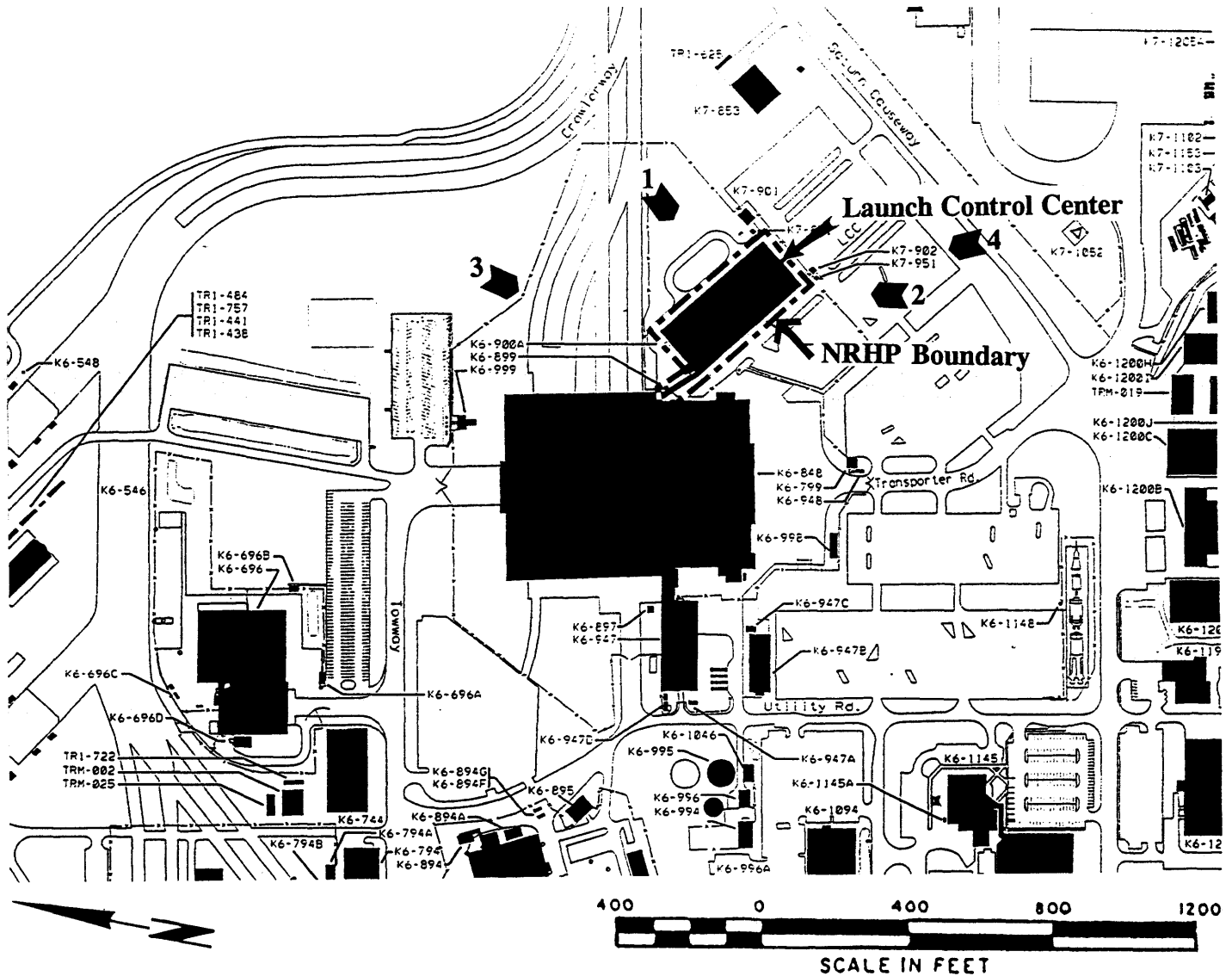
UTM GRID AND 1988 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

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Site Plan Launch Control Center (1995)



█ # = photo number and direction

Source: NASA Facility Utilization Charts, Chart F, July 1, 1995.

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List of Photographs Launch Control Center

1. Launch Control Center (LCC)
2. Brevard County, Florida
3. Kennedy Space Center
4. June 1965
5. Kennedy Space Center
6. LCC, northeast elevation, looking southwest (KSC-65C-3819)
7. 1 of 7

1. LCC
2. Brevard County, Florida
3. Kennedy Space Center
4. September 1965
5. Kennedy Space Center
6. LCC, southwest and southeast elevations, looking north (KSC-65C-6143)
7. 2 of 7

1. LCC
2. Brevard County, Florida
3. Daniel Delahaye & Kimberly Hinder
4. September 1996
5. Archaeological Consultants, Inc.
6. LCC, northeast and northwest elevations, looking south
7. 3 of 7

1. LCC
2. Brevard County, Florida
3. Daniel Delahaye & Kimberly Hinder
4. September 1996
5. Archaeological Consultants, Inc.
6. LCC, southeast and southwest elevations, looking north
7. 4 of 7

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Continuation Sheet**

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**List of Photographs
Launch Control Center**

1. LCC
2. Brevard County, Florida
3. Kennedy Space Center
4. November 1967
5. Kennedy Space Center
6. LCC, interior, Firing Room 1 (KSC-67-18315)
7. 5 of 7

1. LCC
2. Brevard County, Florida
3. Kennedy Space Center
4. January 1971
5. Kennedy Space Center
6. LCC, interior, Firing Room 2 (KSC-71P-102)
7. 6 of 7

1. LCC
2. Brevard County, Florida
3. Kennedy Space Center
4. April 1990
5. Kennedy Space Center
6. LCC, interior, Firing Room (KSC-90PC-626)
7. 7 of 7