National Register of Historic Places Continuation Sheet

Section number	Page

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: 99001643 Date Listed: 01/21/00

Property Name: Missile Crawler Transporter Facilities

County: Brevard State: FL

Multiple Name: John F. Kennedy Space Center MPS

This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

Signature of the Keeper

Date of Action

Amended Items in Nomination:

In Section 5, the Crawlers are classified as objects. A more appropriate classification is structure. An amendment is made to the nomination to change the two contributing objects to two contributing **structures**.

The nomination did not provide UTM coordinates for the Crawlers. Since the Crawlers can only move along the Crawlerway, one of the UTM points of the Crawlerway may be used for the Crawlers. An amendment is made to Section 10 that adds the following UTM coordinates:

Zone: 17; Easting: 534180; Northing:3162000. The acreage of property is also not given and an amendment is made to add less than one acre to Section 10.

This information was confirmed with Kenneth Kumor, NASA FPO.

DISTRIBUTION:

National Register property file

Nominating Authority (without nomination attachment)

2280

DECEIVED

United States Department of the Interior National Park Service

National Register of Historic Places	DEC - These
Registration Form	FORIC PLACES
Registration Form This form is for use in nominating or requesting for individual properties and distributed to Complete the National Register of Historic Places Registration Form (National Register) item by Marking "x" in the appropriate box or by entering the information request	TERSTER THE PRINTED IN HOW
each item by Marking "x" in the appropriate box or by entering the information request	edallor an item does not apply
to the property being documented, enter "N/A" for "not applicable." For functions, materials, and areas of significance, enter only categories and subcategories	architectural classification, 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 Missile Crawler Transporter Facilities	
other names/site number <u>Crawlers/8BR1688</u>	
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 0	09 zip code <u>32899</u>
3. State/Federal Agency Certification	
As the designated authority under the National Historic Preservation hereby certify that this <u>X</u> nomination <u>request</u> for determination the documentation standards for registering properties in the National Places and meets the procedural and professional requirements set for In my opinion, the property <u>X</u> meets <u>does not meet the National recommend that this property be considered significant <u>X</u> national locally. (<u>See continuation sheet for additional comments.</u>)</u>	of eligibility meets Register of Historic th in 36 CFR Part 60. al Register criteria. onally statewide
Yenneth M. Rumer, NASA FEDERAL PRESERVATION OFFICER; A Signature of certifying official/Title	lov. 19, 1999
Signature of certifying official/Title	pate
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	
State of Federal agency and bureau	
In my opinion, the property X meets does not meet the Nation.	al Register criteria.
(See continuation sheet for additional comments.)	1 1 1
Here When SHO Vi	20/98
Signature of Certifying official/Title	Pate
Florida State Historic Preservation Office, Division of Hist	corical Resources
State or Federal agency and bureau	
4. National Park Service Certification	
I hereby certify that the property is:	Keeper Date of Action
entered in the National Register. See continuation sheet.	1/21/2000
determined eligible for the	
National Register.	
See continuation sheet determined not eligible for the	
National Register.	
removed from the National	
Register other, (explain:)	

Missile Crawler Tran Name of Property	sporter Facilities	Brevard, FL County and State		
walle of froperty		County and State		
5. Classification				
Ownership of Property Category of Property (Check as many boxes as apply.) (Check only one box.)		Number of Resources within Property (Do not include previously listed resources in the count.)		
<pre> private public-local public-State _X public-Federal</pre>	<pre> building(s) district site structure _X object</pre>	Contributing Noncontributing 0 0 buildings 0 0 sites 0 0 structures 2 0 objects 2 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		
6. Function or Use				
<pre>Historic Functions (Enter categories from instructions.) instructions.)</pre>		Current Functions (Enter categories from		
TRANSPORTATION: r	oad-related	TRANSPORTATION: road-related		
<u>& air-relate</u>	d	<u> </u>		
DEFENSE: aerospace facility		DEFENSE: aerospace facility		
7. Description				
Architectural Classification M. (Enter categories from instructions.) (OTHER: No Style		Materials (Enter categories from instructions.) Foundation_N/A walls_N/A		
		roofs N/A		

Narrative Description

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

other____other___

issile Crawler Transporter Facilities Brevard, FL				
Name of Property	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.)			
_X A Property is associated with events that have made a significant contribution to the broad patterns of our history.	TRANSPORTATION OTHER: SPACE EXPLORATION ENGINEERING			
B Property is associated with the lives of persons significant in our past.				
_X C Property embodies the distinctive				
characteristics of a type, period, or method of construction or represents	Period of Significance 1965-1975			
the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinct	ion. Significant Dates			
D Property has yielded, or is likely to yield information important in prehistory or hi	ld,			
Criteria Considerations (Mark "x" in all the boxes that apply.)	(Complete if Criterion B is marked above.) N/A			
A owned by a religious institution or used for religious purposes.B removed from its original locations.	Cultural Affiliation N/A			
<pre> C a birthplace or grave D a cemetery E a reconstructed building, object</pre>				
or structure. F a commemorative property.	Architect/Builder Marion (Ohio) Power			
_X G less than 50 years of age or achieved significance within the past 50 years				
Narrative Statement of Significance (Explain the significance of the property on one o	r more continuation sheets.)			
preliminary determination of individual listing (36 CFR 67) has been requested X previously listed in the National Register previously determined eligible by the National Register designated a National Historic Landmark	this form on one or more continuation sheets.) imary location of additional data: State Historic Preservation Office Other State agency Federal agency Local government University Other me of repository: NASA: Kennedy Space Center			

UTM Reference (Place additional UTM references on a continuation sheet.) 1 N/A	Missile Crawler Transporter Facili	ities Breva	Brevard, FL			
UTM Reference (Place additional UTM references on a continuation sheet.) 1 N/A Zone Easting Northing 2 Zone Easting Northing 2 Zone Easting Northing 2 Zone Easting Northing Werbal Boundary Description (Describe the boundaries of the property on a continuation sheet.) Boundary Justification (Explain why the boundaries were selected on a continuation sheet.) 11. Form Prepared By name/title Daniel Delahaye and Kimberly Hinder, Architectural Historians organization Archaeological Consultants, Inc. date August 1996 street & number P.O. Box 5103 telephone (941)925-9906 city or town Sarasota state FL zip code 34277 Additional Documentation Submit the following items with the completed form: Continuation Sheets Maps A USGS map (7.5 or 15 minute series) indicating the property's location. A Sketch map for historic districts and properties having large acreage or numerous resources. Photographs Representative black and white photographs of the property. Additional items (Check with the SHPO or FPO for any additional items.) Property Owner (Complete this item at the request of SHPO or FPO.)	_					
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city or townstatezip code	city or town	state	zip cod	le		
Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to	Paperwork Reduction Act Statement: This information and Historic Places to nominate preserve	ation is being coll	ected for application	ns to the National		
list properties, and to amend existing listings. Response to this request is required to obtain a benefit	list properties, and to amend existing listings.	. Response to this	request is required t	o obtain a benefit		
in accordance with he National Historic Preservation Act, as Amended (16 U.S.C. 470 et seq.).	in accordance with he National Historic Preser	rvation Act, as Ame	nded (16 U.S.C. 470	et seq.).		
Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instruction, gathering and maintaining data, and completing and	Estimated Burden Statement: Public reporting bursesponse including time for reviewing instruc	rgen for this form	is estimated to aver d maintaining data.	age 18.1 nours per and completing and		
reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the	reviewing the form. Direct comments regarding	ng this burden esti	mate or any aspect o	f this form to the		
Chief, Administrative Service Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork reductions Projects (1024-0018), Washington, DC 20503.	Chief, Administrative Service Division, National and the Office of Management and Budget. Paperwo	l Park Service, P.O. ork reductions Proje	вох 3/12/, Washingt ects (1024-0018). Was	on, DC 20013-7127; hington, DC 20503.		

National Register of Historic Places Continuation Sheet

Section number ____7 Page ___1

Narrative Description Missile Crawler Transporter Facilities

Year Built: 1965

Apollo Era Function: Used to transport the Mobile Launch Umbilical Tower (LUT), including the Launch Vehicle, from the Vehicle Assembly Building (VAB) to Launch Pad A or B and return the LUT to the VAB after launch. Also used to transport the Mobile Service Structure (MSS) from its Park Area to and from the Pad.

Shuttle Era Function: Used to transport the Mobile Launcher Platform (MLP), including the Space Shuttle, from the VAB to Launch Pad A or B.

Apollo Era Technological Areas Supported: Transporting Launch Vehicle, LUT, and MSS between Park Areas, VAB and Pad.

Shuttle Era Technological Area Supported: Transporting MLP and Orbiter between Park Areas, VAB, and Pad (NASA 1967:10-82; Butowsky 1981:52).

There are two Missile Crawler Transporter Facilities (Crawlers) at KSC. are in active use in support of the Space Shuttle program. Each consists of a rectangular chassis supported through a suspension system by four dualtread crawler trucks. Their overall length is 131 feet, and overall width is 114 feet; each unit weighs approximately 5.5 million pounds. The Crawlers are powered by self-contained diesel electric generator units. motors in the Crawler trucks propel each vehicle. Electric motor-driven pumps provide hydraulic power for steering and suspension control. conditioning and ventilation are provided where required. Control cabs are The control function of a cab depends on the direction of at each end. The leading cab in the direction of travel has control of the travel. vehicle (NASA 1967:10-82; Butowsky 1981:52).

Maximum speed of a Crawler is 2 mph when unloaded, 1 mph when loaded on a level grade, and 0.35 mph when fully loaded on a 5 percent grade. They have a 500-foot minimum turning radius and is capable of positioning the MLP on the facility support pedestals within 2 inches (Butowsky 1981:10-82; NASA 1967:52).

Each Crawler was originally used to transport the MSS and the combined LUT/Launch Vehicle in preparation for Apollo flights. The LUT traversed the Crawlerway from the VAB to the launch pad. The MSS was transported from its parking area to and from the launch pad. Each Crawler had the capability of lifting, transporting, and lowering the LUT or the MSS without the aid of auxiliary equipment. Each also supplied limited electrical power to the LUT

National Register of Historic Places Continuation Sheet

Section number 7 Page 2

and the MSS during transit. At the time of their construction in 1965 by the Marion (Ohio) Power Shovel Co., Crawlers were believed to be among the largest tracked vehicles in the world (Anon 1994:45; NASA 1967:10-81; Butowsky 1981: 52).

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Section number ___8 Page ___1

Narrative Statement of Significance Missile Crawler Transporter Facilities

Summary

The Crawlers contribute to the Historic Cultural Resources of the John F. Kennedy Space Center, Florida, under the historical context Apollo Program 1961-1975 and each of its three subcontexts under property type F.1, Resources Associated with Transportation. They are significant at the national level under NRHP Criterion A in the areas of space exploration and transportation. The Crawlers are also significant under Criterion C under engineering. Because these objects have achieved significance within the past 50 years and are of exceptional importance in the areas of space exploration, transportation, and engineering, Criteria Consideration G applies.

Significance

The Crawlers are unique and are used only as transporters for space vehicles. Their primary purpose was to transport the MSS and the combined LUT/Launch Vehicle from the VAB to the Launch Pad during the Apollo era. Each currently performs the same function by transporting the Mobile Launch Platform and Space Shuttle from the VAB to the Launch Pad. The Crawlers have substantially retained their integrity of design, materials, workmanship, feeling, setting, location, and association. The Crawlers are indispensable in the efforts of the United States to explore space.

The Crawlers were built in 1965 by the Marion (Ohio) Power Shovel Company for use in the Apollo missions. Because the Saturn family of rockets was so much heavier, a special vehicle was required to transport the new rockets along with the LUT and Launch Vehicle. NASA had the Crawlers created to fulfill this need. At the time of construction, the Crawlers were believed to be among the largest tracked vehicles in the world. As the only two in the United States, they are a unique mode of transportation which was integral to the success of the lunar missions and the present use of the Space Shuttle in the exploration of space (Anon 1994: 45).

National Register of Historic Places Continuation Sheet

Section number 9 Page 1

Bibliography

Missile Crawler Transporter Facilities

Anon.

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.

National Aeronautics and Space Administration (NASA)

1967 <u>Technical Facilities Catalog Volume II</u> [NHB 8800.5 (II)]. March.

1974 <u>Technical Facilities Catalog Volume II</u> [NHB 8800.5A (II)].

October.

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Section number 10 Page 1

Verbal Boundary Description Missile Crawler Transporter Facilities

The boundary consists of the objects themselves.

Boundary Justification Missile Crawler Transporter Facilities

This includes all that was historically required for their function.

National Register of Historic Places Continuation Sheet

Section number 11 Page 1

List of Photographs Missile Crawler Transporter Facilities

- 1. Missile Crawler Transporter Facility
- 2. Brevard County, Florida
- 3. Kennedy Space Center
- 4. January 1966
- 5. Kennedy Space Center
- 6. Crawler on Crawlerway, aerial (KSC-66-1450)
- 7. 1 of 3
- 1. Missile Crawler Transporter Facility
- 2. Brevard County, Florida
- 3. Daniel Delahaye & Kimberly Hinder
- 4. September 1996
- 5. Archaeological Consultants, Inc.
- 6. Crawler
- 7. 2 of 3
- 1. Missile Crawler Transporter Facility
- 2. Brevard County, Florida
- 3. Daniel Delahaye & Kimberly Hinder
- 4. September 1996
- 5. Archaeological Consultants, Inc.
- 6. Crawler
- 7. 3 of 3