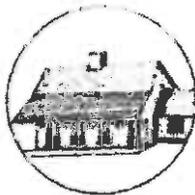


Original
 Update



HISTORICAL STRUCTURE FORM

FLORIDA MASTER SITE FILE

Version 4.0 1/07

Site # BR02923
Field Date 1-24-2012
Form Date 2-16-2012
Recorder # 18

Shaded Fields represent the minimum acceptable level of documentation.
Consult the *Guide to Historical Structure Forms* for detailed instructions.

Site Name(s) (address if none) Locomotive 1 Multiple Listing (DHR only) _____
Survey Project Name Historic Survey of NASA Railroad System Survey # (DHR only) _____
National Register Category (please check one) building structure district site object
Ownership: private-profit private-nonprofit private-individual private-nonspecific city county state federal Native American foreign unknown

LOCATION & MAPPING

Street Number _____ Direction _____ Street Name _____ Street Type _____ Suffix Direction _____
Address: _____ Contractor _____ Road _____
Cross Streets (nearest / between) Schwartz Road and Saturn Causeway
USGS 7.5 Map Name ORSINO USGS Date 1976 Plat or Other Map _____
City / Town (within 3 miles) Titusville In City Limits? yes no unknown County Brevard
Township 22S Range 37E Section 19 1/4 section: NW SW SE NE Irregular-name: _____
Tax Parcel # Not applicable Landgrant _____ Block _____ Lot _____
Subdivision Name _____
UTM Coordinates: Zone 16 17 Easting 533794 Northing 3160101
Other Coordinates: X: _____ Y: _____ Coordinate System & Datum _____
Name of Public Tract (e.g., park) _____

HISTORY

Construction Year: 1968 approximately year listed or earlier year listed or later
Original Use Other From (year): 1968 To (year): curr
Current Use Other From (year): _____ To (year): _____
Other Use Locomotive From (year): _____ To (year): _____
Moves: yes no unknown Date: _____ Original address _____
Alterations: yes no unknown Date: _____ Nature See continuation sheet
Additions: yes no unknown Date: _____ Nature _____
Architect (last name first): _____ Builder (last name first): _____
Ownership History (especially original owner, dates, profession, etc.) Toledo, Peoria, and Western Railway, 1968-unknown; NASA, 1984-present
Is the Resource Affected by a Local Preservation Ordinance? yes no unknown Describe _____

DESCRIPTION

Style Not applicable Exterior Plan Not applicable Number of Stories NA
Exterior Fabric(s) 1. Steel 2. _____ 3. _____
Roof Type(s) 1. Vaulted 2. _____ 3. _____
Roof Material(s) 1. Other 2. _____ 3. _____
Roof secondary strucs. (dormers etc.) 1. _____ 2. _____
Windows (types, materials, etc.) _____
Distinguishing Architectural Features (exterior or interior ornaments) _____
Ancillary Features / Outbuildings (record outbuildings, major landscape features; use continuation sheet if needed.) _____

DHR USE ONLY		OFFICIAL EVALUATION		DHR USE ONLY	
NR List Date _____	SHPO - Appears to meet criteria for NR listing: <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> insufficient info	Date _____	Init. _____		
<input type="checkbox"/> Owner Objection	KEEPER - Determined eligible: <input type="checkbox"/> yes <input type="checkbox"/> no	Date _____			
	NR Criteria for Evaluation: <input type="checkbox"/> a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d (see <i>National Register Bulletin 15, p. 2</i>)				

DESCRIPTION (continued)

Chimney: No. _____ Chimney Material(s): 1. _____ 2. _____
 Structural System(s): 1. _____ 2. _____ 3. _____
 Foundation Type(s): 1. _____ 2. _____
 Foundation Material(s): 1. _____ 2. _____
 Main Entrance (stylistic details) _____

Porch Descriptions (types, locations, roof types, etc.) _____

Condition (overall resource condition): excellent good fair deteriorated ruinous
 Narrative Description of Resource See continuation sheet

Archaeological Remains _____ Check if Archaeological Form Completed

RESEARCH METHODS (check all that apply)

FMSF record search (sites/surveys) library research building permits Sanborn maps
 FL State Archives/photo collection city directory occupant/owner interview plat maps
 property appraiser / tax records newspaper files neighbor interview Public Lands Survey (DEP)
 cultural resource survey (CRAS) historic photos interior inspection HABS/HAER record search
 Other methods (describe) _____

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) See continuation sheet

OPINION OF RESOURCE SIGNIFICANCE

Appears to meet the criteria for National Register listing individually? yes no insufficient information
 Appears to meet the criteria for National Register listing as part of a district? yes no insufficient information
 Explanation of Evaluation (required, whether significant or not; use separate sheet if needed) See continuation sheet

Area(s) of Historical Significance (see *National Register Bulletin 15*, p. 8 for categories: e.g. "architecture", "ethnic heritage", "community planning & development", etc.)

1. Other 3. _____ 5. _____
 2. Transportation 4. _____ 6. _____

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field notes, analysis notes, photos, plans and other important documents

1) Document type All materials at one location Maintaining organization Archaeological Consultants Inc
 Document description _____ File or accession #'s P90260
 2) Document type _____ Maintaining organization _____
 Document description _____ File or accession #'s _____

RECORDER INFORMATION

Recorder Name Christopher Berger Affiliation Archaeological Consultants Inc
 Recorder Contact Information 8110 Blaikie Court, Suite A, Sarasota, FL 34240/941-379-6206/ACIFlorida@comcast.net
 (address / phone / fax / e-mail)

Required Attachments

- ① USGS 7.5' MAP WITH STRUCTURE LOCATION PINPOINTED IN RED
- ② LARGE SCALE STREET, PLAT OR PARCEL MAP (available from most property appraiser web sites)
- ③ PHOTO OF MAIN FACADE, ARCHIVAL B&W PRINT OR DIGITAL IMAGE FILE
 If submitting an image file, it must be included on disk or CD AND in hard copy format (plain paper is acceptable).
 Digital image must be at least 1600 x 1200 pixels, 24-bit color. jpeg or tiff.

DESCRIPTION (continued)

Chimney: No. _____ Chimney Material(s): 1. _____ 2. _____ 3. _____
Structural System(s): 1. _____ 2. _____ 3. _____
Foundation Type(s): 1. _____ 2. _____
Foundation Material(s): 1. _____ 2. _____
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 cultural resource survey (CRAS) historic photos interior inspection HABS/HAER record search
 other methods (describe) _____

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) See continuation sheet

OPINION OF RESOURCE SIGNIFICANCE

Appears to meet the criteria for National Register listing individually? yes no insufficient information
Appears to meet the criteria for National Register listing as part of a district? yes no insufficient information
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Area(s) of Historical Significance (see National Register Bulletin 15, p. 8 for categories: e.g. "architecture", "ethnic heritage", "community planning & development", etc.)

- 1. Other _____ 3. _____ 5. _____
2. Transportation _____ 4. _____ 6. _____

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field notes, analysis notes, photos, plans and other important documents

- 1) Document type All materials at one location Maintaining organization Archaeological Consultants Inc
Document description _____ File or accession #'s P9026Q
2) Document type _____ Maintaining organization _____
Document description _____ File or accession #'s _____

RECORDER INFORMATION

Recorder Name Christopher Berger Affiliation Archaeological Consultants Inc
Recorder Contact Information 8110 Blaikie Court, Suite A, Sarasota, FL 34240/941-379-6206/ACIFlorida@comcast.net
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Digital image must be at least 1600 x 1200 pixels, 24-bit color. jpeg or tiff.

CONTINUATION SHEET

Narrative Description

Locomotive 1 (8BR2923) is one of three switching locomotives within the NASA Kennedy Space Center (KSC) Railroad System; the others are Locomotive 2 (8BR3043) and Locomotive 3 (8BR3044). Locomotive 1 is a model EMD SW1500, built by General Motors' Electro-Motive Division. It is 44'-8"-long and stands 11'-9"-tall at the engine hood and 15' at the top of the cab. It weighs 248,000 tons and sits on two, four-wheel trucks with a 40" wheel diameter. A walkway surrounds the engine and is accessible either from the cab or from the steps at the front. The cab also can be entered through a door at the back. The 1,500 horsepower, V-12 diesel engine is capable of reaching speeds up to 65 mph (Bachand n.d.).

Locomotive 1 was built in February 1968 for the Toledo, Peoria, and Western Railway; it had the number TP&W 303. In all, 808 EMD SW1500 locomotives were built by General Motors (KSC-TO, Folder No. Locomotive 1). NASA bought all three locomotives on July 24, 1984, for \$108,000 each to replace three Alco S2 locomotive switcher cars that had previously belonged to the Army (KSC-TO, Folder No. Locomotive 1; NASA 2007). Locomotive 1 was repainted black, red, and gray with white stripes, and in 2004, the NASA Railroad crew rebuilt its engine (*Spaceport News* 2004).

Locomotive 1, along with Locomotives 2 and 3, moved railcars to and from the Jay Jay Yard and facilities throughout the KSC, as well as to the Center's exchange with the Cape Canaveral Air Force Station. Most notably, the locomotives transported solid rocket booster (SRB) motor case segments, which were used in concert with the space shuttle main engines to launch orbiters into space (*Spaceport News* 2011). They also conveyed Space Shuttle Program (SSP) ground support equipment, the rocket propellant nitrogen tetroxide, Air Force Titan rockets, Navy Trident missiles, and booster segments for the Ares I-X test flights (NASA 2007).

With the retirement of the SSP, Locomotive 1 will be maintained as the backup to Locomotive 3, which will serve as the primary vehicle for the KSC's rail network; Locomotive 2 will be used for parts for the other two (Crews 2012).

Explanation of Evaluation

Locomotive 1 is considered eligible for listing in the National Register of Historic Places as a contributing resource to the NASA KSC Railroad System Historic District (8BR2932), which is eligible in the context of the U.S. Space Shuttle Program (ca. 1969-2011). The locomotive was purchased by NASA in 1984, and was one of three locomotives that were crucial to the NASA Railroad's support of the SSP; everything that entered the KSC from 1984 to 2010 via the railroad was transported by one of these three locomotives. Most prominently, the locomotives were used in tandem with railcars to transport the SRB motor case segments between the Thiokol Corporation, their manufacturer in Utah, and the KSC. Furthermore, the locomotives moved ground support equipment and supplies important to the SSP and its associated activities at the KSC. Locomotive 1 has retained its historical integrity.

CONTINUATION SHEET

Bibliographic References

Bachand, Jean-Denis. EMD SW1500.

n.d. Accessed on February 2, 2012, at <http://thedieselshop.us/Data%20EMD%20SW1500.HTML>.

Crews, Jesse (KSC Railroad technician)

2012 Interview by Christopher Berger, January 25. Notes on file at Archaeological Consultants Inc.

NASA KSC, Transportation Office (KSC-TO)

Var. Folder No. Locomotive 1, 2/68, Formerly TP&W 303

National Aeronautics and Space Administration.

2007 *Facts: The NASA Railroad*.

Spaceport News

2004 "Railroad Crew Gets Locomotive Back on Track." 11 February:8.

2008 "Scene Around Kennedy Space Center." 28 November:5.

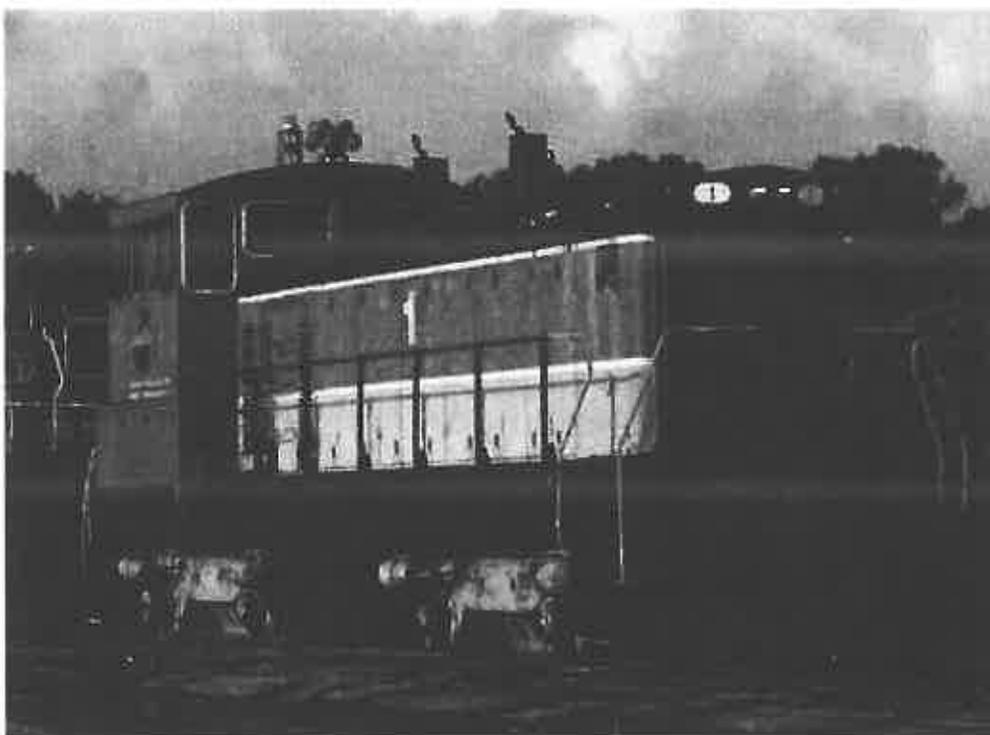
2011 "NASA Railroad Played Vital Role in Shuttle Booster Haul." 11 February:6.



PHOTOGRAPHS



Locomotive No. 1



Locomotive No. 1



USGS

Orsino

Township 22 South, Range 37 East, Section 19
National Geographic Society (2011) *USA Topo Maps*.

