

Original
 Update



HISTORICAL STRUCTURE FORM

FLORIDA MASTER SITE FILE

Version 4.0 1/07

Reset Form

Site #8 **BR02003**
Field Date 5-13-2013
Form Date 7-30-2013
Recorder # _____

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) High Pressure Wash Facility Multiple Listing (DHR only) _____
Survey Project Name Survey of NASA-Owned Facilities CCAFS Ind. Area 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

Clear Location Values

Street Number Bldg 66240 Direction _____ Street Name Hangar Street Type Road Suffix Direction _____
Cross Streets (nearest / between) Industrial Bypass Road
USGS 7.5 Map Name CAPE CANAVERAL USGS Date 1976 Plat or Other Map _____
City / Town (within 3 miles) Cape Canaveral In City Limits? yes no unknown County Brevard
Township 23S Range 37E Section 13 1/4 section: NW SW SE NE Irregular-name: _____
Tax Parcel # N/A Landgrant _____
Subdivision Name _____ Block _____ Lot _____
UTM Coordinates: Zone 16 17 Easting 540457 Northing 3151063
Other Coordinates: X: _____ Y: _____ Coordinate System & Datum _____
Name of Public Tract (e.g., park) Cape Canaveral Air Force Station (CCAFS)

HISTORY

Clear History Values

Construction Year: 1979 approximately year listed or earlier year listed or later
Original Use Other From (year): _____ To (year): _____
Current Use Abandoned/Vacant From (year): _____ To (year): _____
Other Use SRB processing From (year): _____ To (year): _____
Moves yes no unknown Date: _____ Original address _____
Alterations: yes no unknown Date: _____ Nature _____
Additions: yes no unknown Date: _____ Nature _____
Architect (last name first): Sverdrup & Parcel and Assoc. Builder (last name first): unknown
Ownership History (especially original owner, dates, profession, etc.) NASA is the original and current owner.

Is the Resource Affected by a Local Preservation Ordinance? yes no unknown Describe _____

DESCRIPTION

Clear Description Values

Style Industrial Vernacular Exterior Plan Rectangular Number of Stories 1
Exterior Fabric(s) 1. Concrete block 2. _____ 3. _____
Roof Type(s) 1. Flat 2. _____ 3. _____
Roof Material(s) 1. Built-up 2. _____ 3. _____
Roof secondary strucs. (dormers etc.) 1. _____ 2. _____
Windows (types, materials, etc.) See continuation sheet.
Distinguishing Architectural Features (exterior or interior ornaments) See continuation sheet.
Ancillary Features / Outbuildings (record outbuildings, major landscape features; use continuation sheet if needed.) See continuation sheet.

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 <input checked="" type="checkbox"/> Clear Check Boxes	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</i> , p. 2)				

DESCRIPTION (continued)

Clear Description Values

Chimney: No. _____ Chimney Material(s): 1. _____ 2. _____
 Structural System(s): 1. Concrete block 2. _____ 3. _____
 Foundation Type(s): 1. slab 2. _____
 Foundation Material(s): 1. Poured Concrete Footing 2. _____ Note: you may use the last box in each field to type in an answer that does not appear in the list provided
 Main Entrance (stylistic details) single-light metal doors throughout, vertical lift bay doors on work bays

Porch Descriptions (types, locations, roof types, etc.) N/A

Condition (overall resource condition): excellent good fair deteriorated ruinous

Narrative Description of Resource A one-story building of concrete block and precast concrete construction. See continuation sheet.

Archaeological Remains Not Applicable

Check if Archaeological Form Completed

RESEARCH METHODS (check all that apply)

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

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) SRB Disassembly and Refurbishment Complex HAER Documentations FL-8-11-S and FL-8-11-S-5 and see continuation sheet.

OPINION OF RESOURCE SIGNIFICANCE

Clear Significance Values

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) The High Pressure Wash Building is a contributing resource in the NRHP-eligible SRB Disassembly and Refurbishment Complex Historic District, and also contributes to the larger NASA-Owned CCAFS Industrial Area Historic District. 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. Engineering 5. _____
 2. Science 4. Transportation 6. _____

DOCUMENTATION

Clear Documentation Values

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

- | | |
|--|---|
| 1) Document type <u>Photographs</u> | Maintaining organization <u>National Aeronautics and Space Administration</u> |
| Document description <u>HAER Photography and Narrative Context</u> | File or accession #'s <u>http://mediaarchive.ksc.nasa.gov/search</u> |
| 2) Document type <u>Photographs</u> | Maintaining organization <u>National Park Service, Region One</u> |
| Document description <u>Hangar AF</u> | File or accession #'s <u>HAER Nos. FL-8-11-S and FL-8-11-S-5</u> |

RECORDER INFORMATION

Recorder Name David L. Price Affiliation National Aeronautics and Space Administration

Recorder Contact Information 118 S. 11th St. Nashville, TN 37206; dprice@newsouthassoc.com; 615-262-4326
 (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.

**Historic Structure Form
Continuation Sheets**

DESCRIPTION OF RESOURCE:

The High Pressure Wash Building was completed during the 1977-79 modifications of the Hangar AF area. The building was completed to house the manual high-pressure wash system that removed the remaining residue of the Thermal Protection System (TPS) off the solid rocket booster (SRB) segments. The segments went to the First Wash Building and then to the High Pressure Wash Building before being disassembled in Hangar AF.

The High Pressure Wash Building is a one-story industrial-type building of concrete block and precast concrete construction. It has a rectangular floor plan composed of a line of four side-by-side work bays. From north to south, the work bays include an equipment room, high-pressure washroom (with turntable in floor), mechanical buildup bay, and ETA ring buildup bay. This last room was also used as a storage area for the MPSS. The building has a nearly flat precast concrete slab roof that slopes from front (west) to back (east). The roof is rimmed with a galvanized roof edge fascia and galvanized gutters. A single metal exhaust fan stack protrudes from the roof of the northernmost equipment room.

The building's exterior features painted concrete block with precast 16" concrete pilasters. The building is accessed via a series of four steel roll-up doors on the west elevation, one on each work bay. The equipment room has a small steel roll-up door, which is suitable for people and small equipment, while the other three bays have full bay-sized roll-up doors. There are also pedestrian entrance doors into each of the three work bays.

The interior of the High Pressure Wash Building has four rooms. All have concrete block interior walls, concrete slab ceilings, and concrete slab floors. The northernmost room is an equipment storage and observation room that looks into the wash bay next door. The equipment room is primarily a tool and equipment storage room. The high-pressure washroom contains a 20'-0" diameter mechanical turntable embedded in the floor. SRB components such as the aft skirts, forward skirts, and frustums were placed on top of the turntable and rotated for high-pressure wash. The mechanical buildup room, originally called the "wash/rinse room," has a similar configuration as the high-pressure washroom, except it has no turntable in the floor, no observation window, and no metal work stand. The ETA buildup room, originally called the "dry room," is the southernmost room of the building. The room's configuration is similar to the wash/rinse room. It has a 1-ton crane installed laterally from north to south across the ceiling.

EXPLANATION OF EVALUATION:

The High Pressure Wash Building was constructed in 1979 to aid in the refurbishment of the Space Shuttle's SRBs. After demating in Hangar AF, the SRB segments were transferred to the High Pressure Wash Building's high-pressure washroom. The segments were placed on the in-floor turntable, which rotated while workers on stationary work stands washed off TPS materials. Additional washing and parts removal occurred in the mechanical buildup room. From the High Pressure Wash Building, the SRB segments were transferred to the MMBF for further blasting of all remaining surface paint down to bare aluminum.

**Historic Structure Form
Continuation Sheets**

The entire Hangar AF Complex (SRB Disassembly and Refurbishment Historic District) functioned as a one-of-a-kind facility that is considered eligible for listing in the National Register of Historic Places (NRHP) in the context of the SSP (1969-2011) under Criterion A in the area of Space Exploration. The complex is a significant historic property for its association with the Space Transportation System (STS), commonly known as the "space shuttle." The STS was a unique breakthrough in the history of the U.S. Space Program, because it was based on a design that made most of its major components re-usable, a model that decreased program costs, and helped make orbital space flight a routine endeavor. Along with the orbiter spacecraft, the SRBs were two of the shuttle's primary re-usable elements. The SRBs' re-usability was made possible by a number of facilities at Kennedy Space Center (KSC) and CCAFS, including the SRB Disassembly and Refurbishment Complex. The complex is the first place to which the SRBs were brought after their recovery from sea and where they were disassembled, cleaned, and processed before they were moved to other KSC facilities for buildup and assembly. Because it achieved significance within the past 50 years, Criteria Consideration G also applies. The High Pressure Wash building, as one component of this complex, is considered a contributing resource to the SRB Disassembly and Refurbishment Historic District as it played an essential role in the re-usability of the SRBs.

BIBLIOGRAPHIC REFERENCES:

Photographs and Drawings

Sverdrup & Parcel and Associates. "Solid Rocket Booster Recovery & Disassembly Facility, Hangar AF, CCAFS, Industrial Area." Kennedy Space Center, Florida. Construction drawings, 1977.

Kennedy Space Center.

Photograph negative number 108-KSC-81PC-459, 1981. On file at Kennedy Space Center Archives.

Photograph negative number 116-KSC-383C-1256, 1983. On file at Kennedy Space Center Archives.

Photograph negative number 108-KSC-378C-364/3, 1978. On file at Kennedy Space Center Archives.

Photograph negative number 108-KSC-3796-1060/3, 1979. On file at Kennedy Space Center Archives.

Interviews

Christy, Howard, RPSF Manager, Personal Communication, February 24, 2010.

Morales, Art. George C. Marshall Space Flight Center

Office of the Director Shuttle - ARES Transition Office. Interview with author. September 27, 2011.

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Price, David. Hangar AF Facility Manager, United Space Alliance. Interview with the author. September 27, 2011.

Sources

Deming, Joan, and Patricia Slovinac. *NASA-Wide Survey and Evaluation of Historic Facilities in the Context of the U.S. Space Shuttle Program: Roll-Up Report*. Submitted to the National Aeronautics and Space Administration, Environmental Management Branch. Sarasota, Florida: Archaeological Consultants, Inc. February 2008, revised July 2008.

National Aeronautics and Space Administration (NASA)
NASA Facts: Solid Rocket Boosters. Kennedy Space Center, Florida. IS-2004-09-014-KSC, Revised 2006.

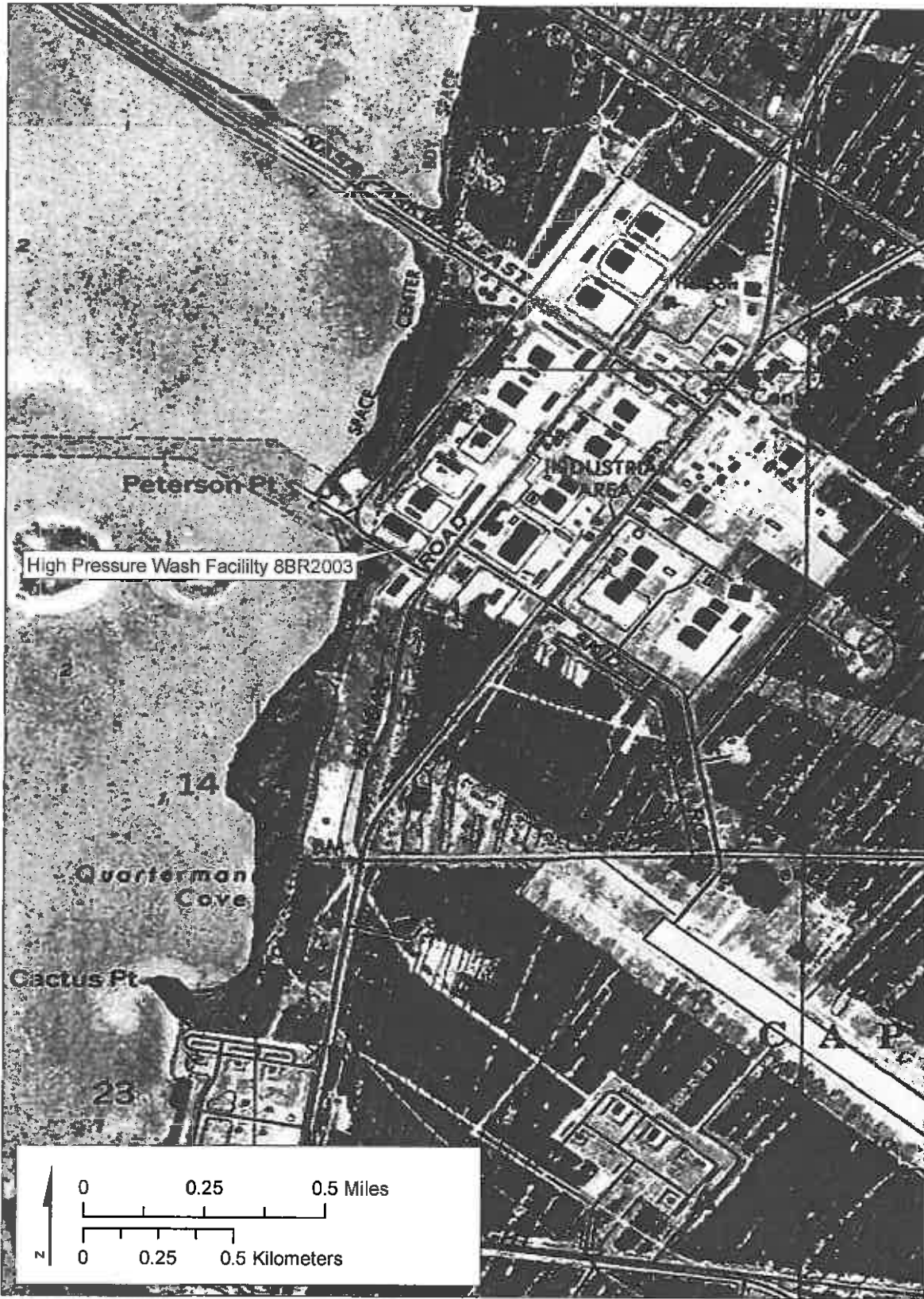
NASA Facts: Solid Rocket Boosters and Post-Launch Processing. Kennedy Space Center, Florida. FS-2004-07-012-KSC (Rev. 2006).

Sverdrup Corporation: Company History. <http://www.fundinguniverse.com/company-histories/Sverdrup-Corporation-Company-History.html>. Accessed November 17, 2011.

United Space Alliance

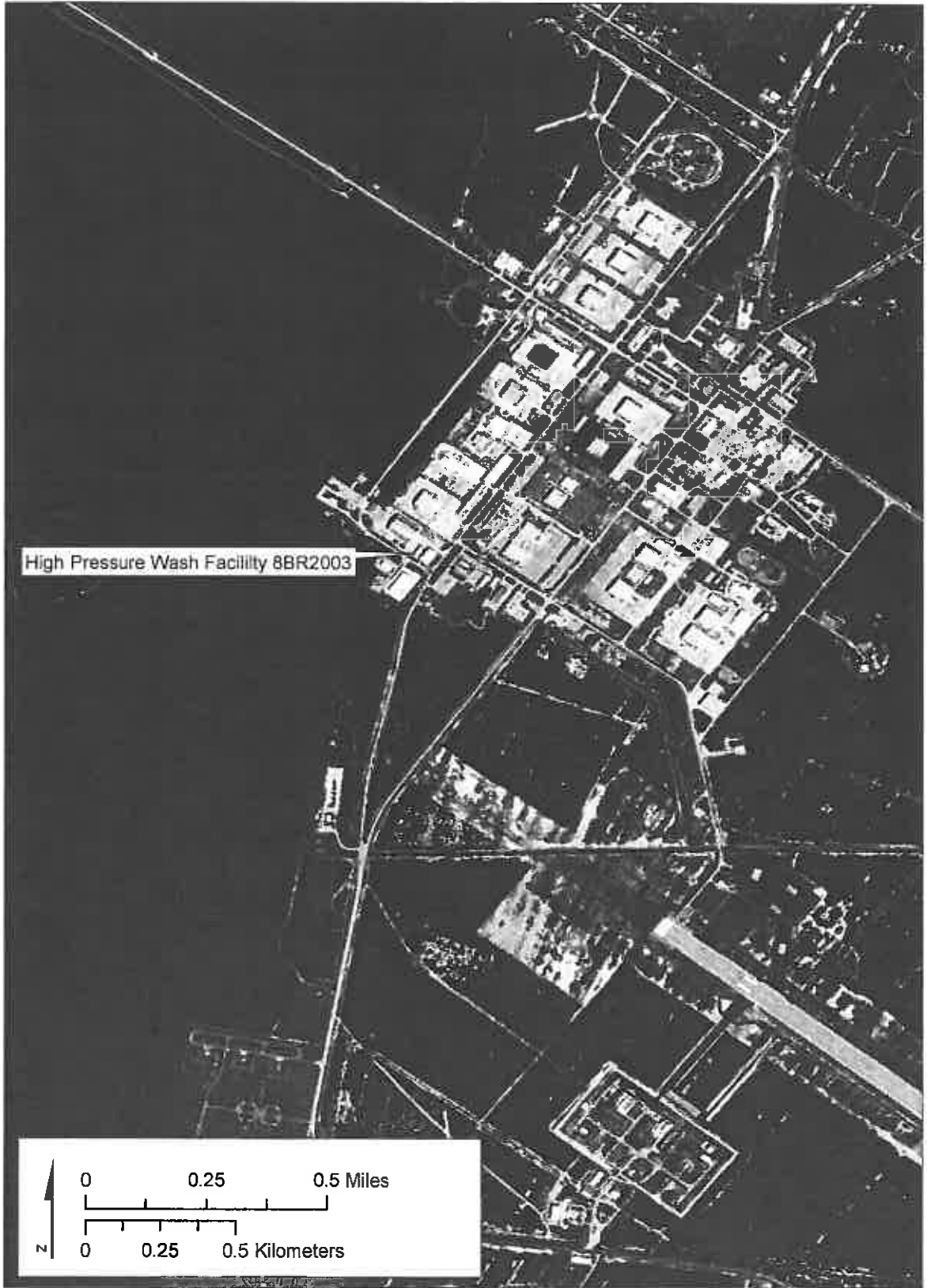
“Marine Operations, Revision J.” (John F. Kennedy Space Center, n.d.), MO-1.

Historic Structure Form
Continuation Sheets



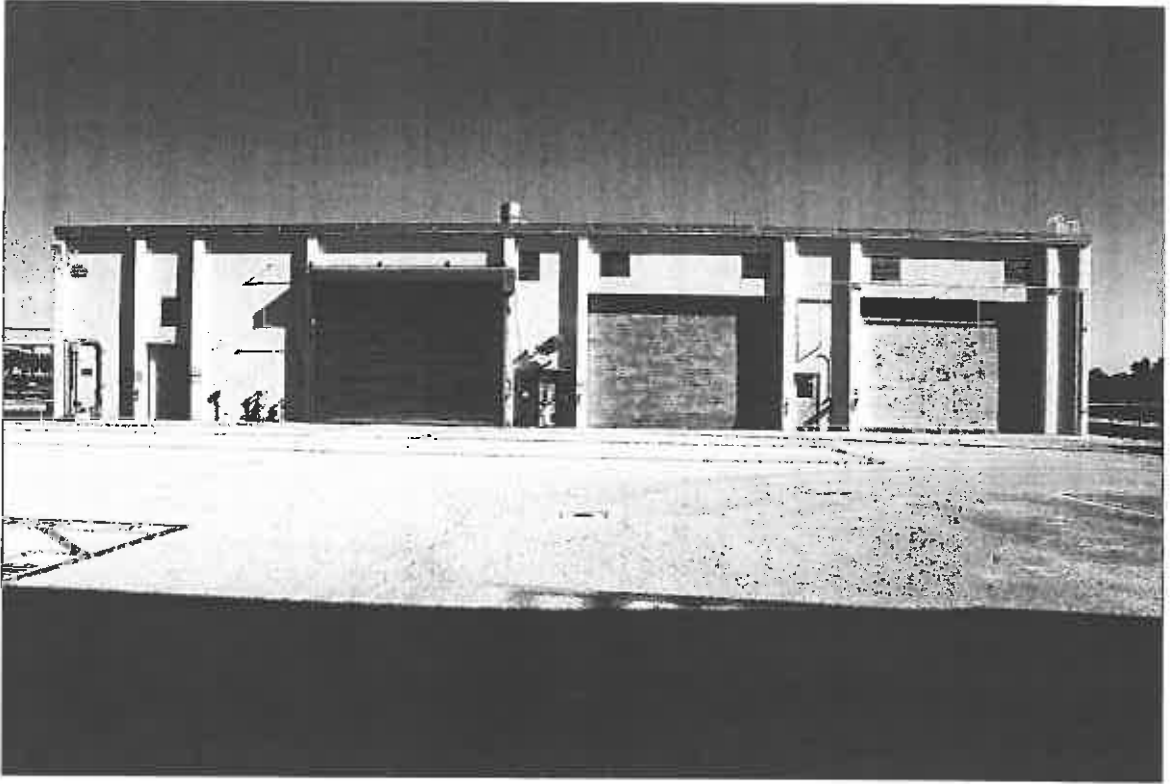
Source: USGS 7.5 Minute Topographic Quadrangle Map, Orsino, FL (1976)

**Historic Structure Form
Continuation Sheets**



Source: ESRI Resource Data, Imagery Layer

**Historic Structure Form
Continuation Sheets**



High Pressure Wash Facility, Exterior