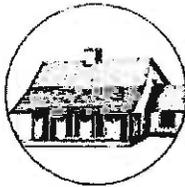


Original
 Update



HISTORICAL STRUCTURE FORM

FLORIDA MASTER SITE FILE

Version 4.0 1/07

Reset Form

Site #8 **BR02009**
Field Date 5-13-2013
Form Date 7-31-2013
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) Multi-Media Blast 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. 66340 Direction _____ Street Name Hangar Street Type Road Suffix Direction _____
Address: _____
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 540363 Northing 3150955
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: 1992 approximately year listed or earlier year listed or later
Original Use Other From (year): 1992 To (year): 2012
Current Use Other 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): AJT & Associates 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 Irregular 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. (domers 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 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 National Register Bulletin 15, p. 2)				

DESCRIPTION (continued)

Clear Description Value

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. _____
 Main Entrance (stylistic details) Single-light metal pedestrian entrances. See continuation sheet.

Note: you may use the last box in each field to type in an answer that does not appear in the list provided

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

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

Narrative Description of Resource This concrete block building has four block-shaped sections, including two blast bays on its east and west ends, a central equipment area, and a protruding office/restroom on the north. 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-7. See continuation sheet.

OPINION OF RESOURCE SIGNIFICANCE

Clear Significance Value

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 Multi-Media Blast Facility 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. <u>Other</u> | 3. <u>Engineering</u> | 5. _____ |
| 2. <u>Science</u> | 4. <u>Transportation</u> | 6. _____ |

DOCUMENTATION

Clear Documentation Value

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-7</u> |

RECORDER INFORMATION

Recorder Name David L. Price Affiliation New South Associates
 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 most recently built of the complex's buildings, it is located on the south end of the complex and is separated from the remaining complex buildings by a non-contributing GSE storage building. The Multi-Media Blast Facility (MMBF) is accessed by a paved road that leads south from the main hangar area.

The building is composed of four block-shaped sections, including two blast bays on its east and west ends, a central equipment area, and a protruding office/restroom area on the north end. The exterior of the building is painted concrete block, which also serves as its structural system. It has a flat gravel-surface roof and a reinforced concrete foundation. There is an aluminum flashing and gutter system around the perimeter of the roofline.

The main north façade of the building features two bi-fold metal bay doors on each of the blast bays, with the office/restroom area in between. There are three ventilation hoods on the roof of the west blast bay and three more on the east blast bay. On the east elevation is a steel frame "lean-to" structure with aluminum roof that covers a nine-unit vacuum machine that sucks air out of the west blast bay. The south elevation has two additional bi-fold doors leading into the blast bays. The building's central equipment area is visible on this elevation. Installed south of the east blast bay is a four-unit vacuum machine that sucks air out of the bay when in use.

The interior is composed of five areas, including the two blast bays, a rear (south) equipment room, a blast equipment hopper room, and the office/restroom area. This last area has an office room, locker room, and restroom, and it is separated from the rest of the building by a covered corridor walkway. Both sandblasting bays have exposed metal structural system ceilings, painted concrete block walls, and concrete floors. The blasting activities in these rooms have weathered the paint on the interior walls. The hopper room contains a central hopper where the glass-bead media fired by the blast machines is loaded and distributed.

EXPLANATION OF EVALUATION:

The MMBF was built in 1992 to house a new blasting facility at the Hangar AF Complex. After disassembly and Thermal Protection System (TPS) removal, the Solid Rocket Booster (SRB) aft skirts, forward skirts, and frustums were moved into one of the facility's two blast bays. The exterior accordion-style doors were then closed. Workers used handheld blasting guns to remove the last remaining areas of TPS material and the underlying coats of hypalon paint and primer. The end result was the exposure of the segments' bare aluminum surface. The blast bays were each equipped with high-powered vacuum ventilation systems that removed all of the dust and debris from the blast bay during operations.

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 Space Shuttle Program (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

**Historic Structure Form
Continuation Sheets**

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 Multi-Media Blast Facility, 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

AJT & Associates, Inc. "Hangar AF New Multi-Media Blast Facility." Kennedy Space Center, Florida. Construction drawings, 1991.

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).

United Space Alliance

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

"Structures Assembly Buildup Operations, Revision J" (John F. Kennedy Space Center, n.d.).

Interviews

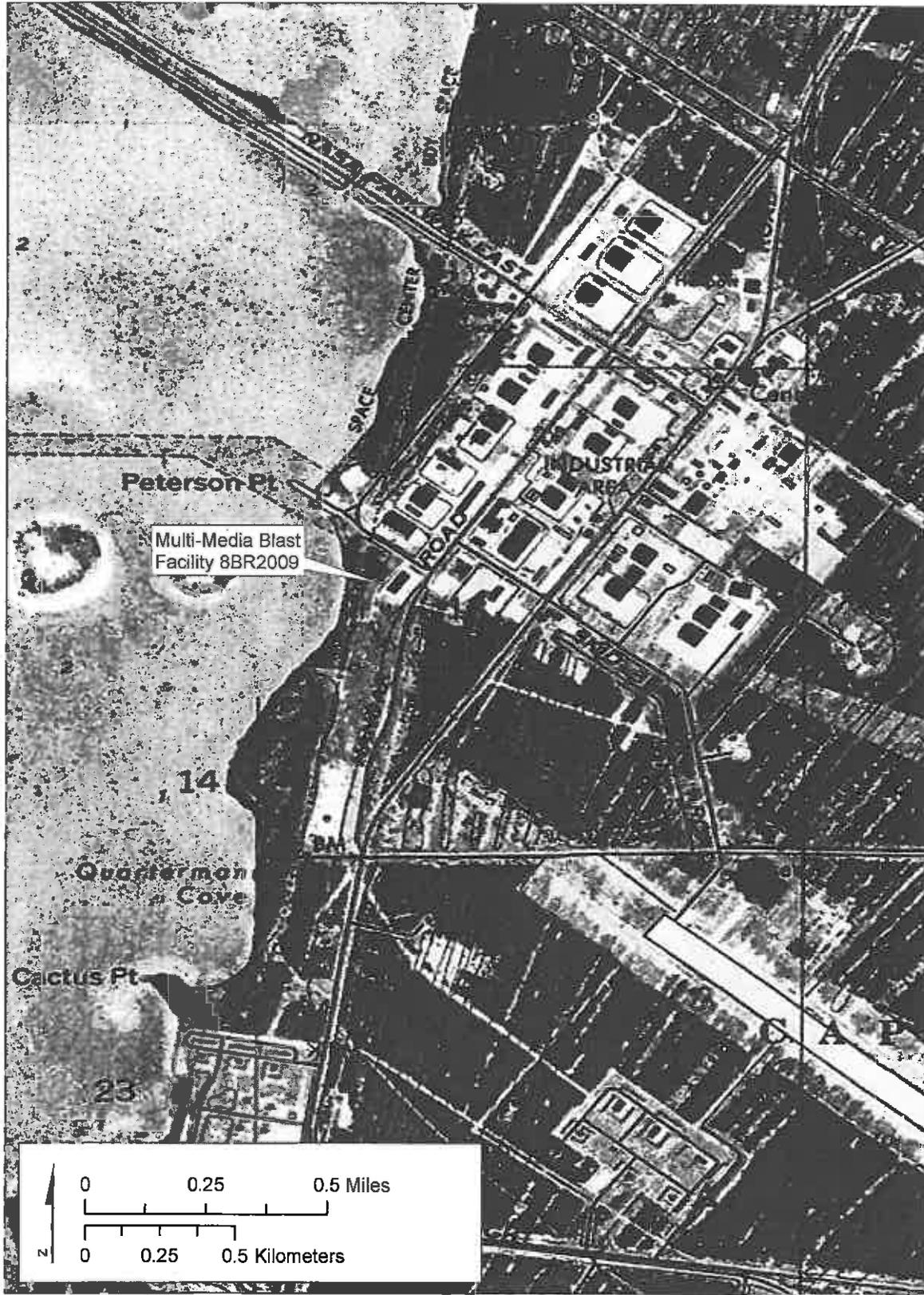
Christy, Howard, RPSF Manager, Personal Communication, February 24, 2010.

**Historic Structure Form
Continuation Sheets**

Morales, Art. George C. Marshall Space Flight Center
Office of the Director Shuttle - ARES Transition Office. Interview with author.
September 27, 2011.

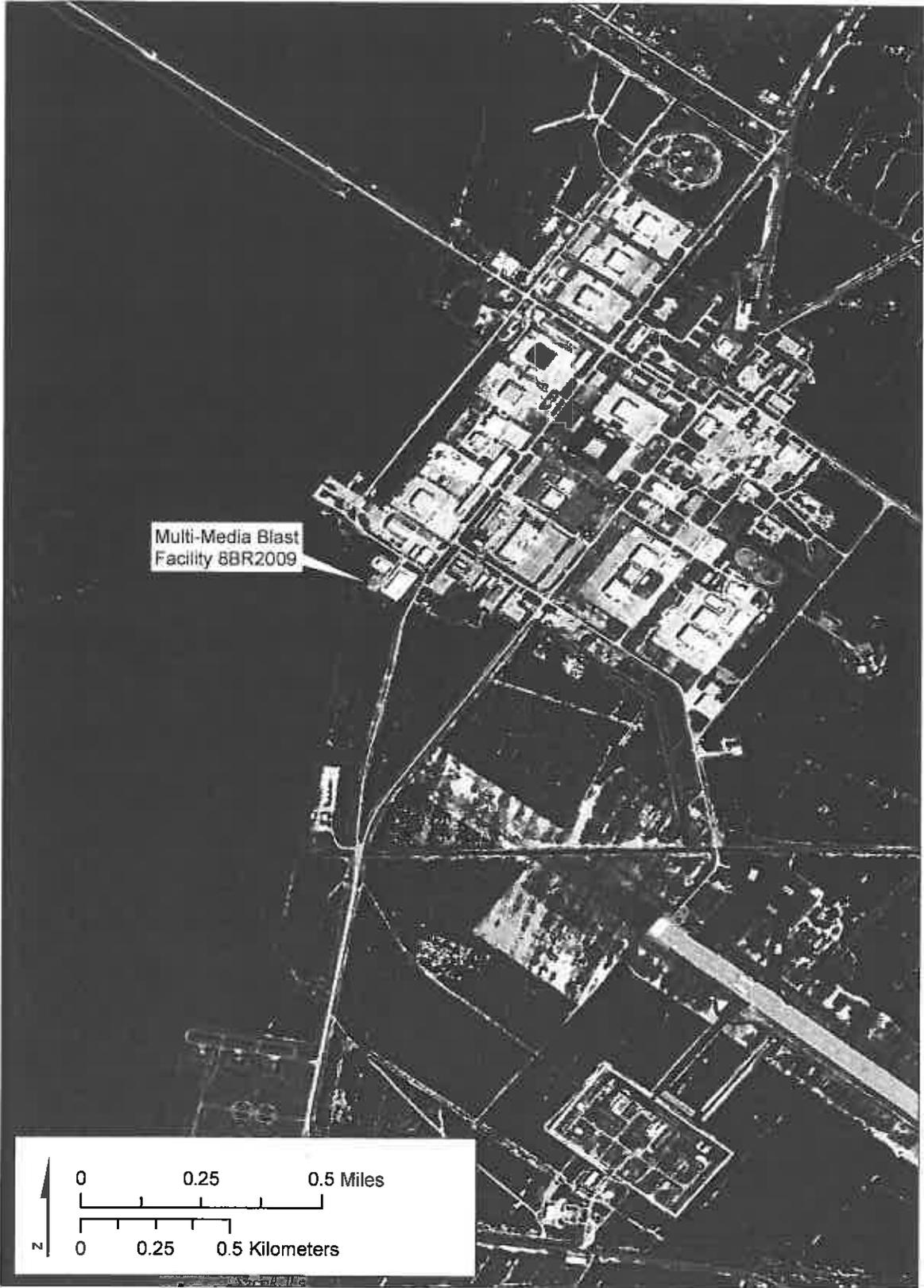
Price, David. Hangar AF Facility Manager, United Space Alliance. Interview with the
author. September 27, 2011.

Historic Structure Form
Continuation Sheets



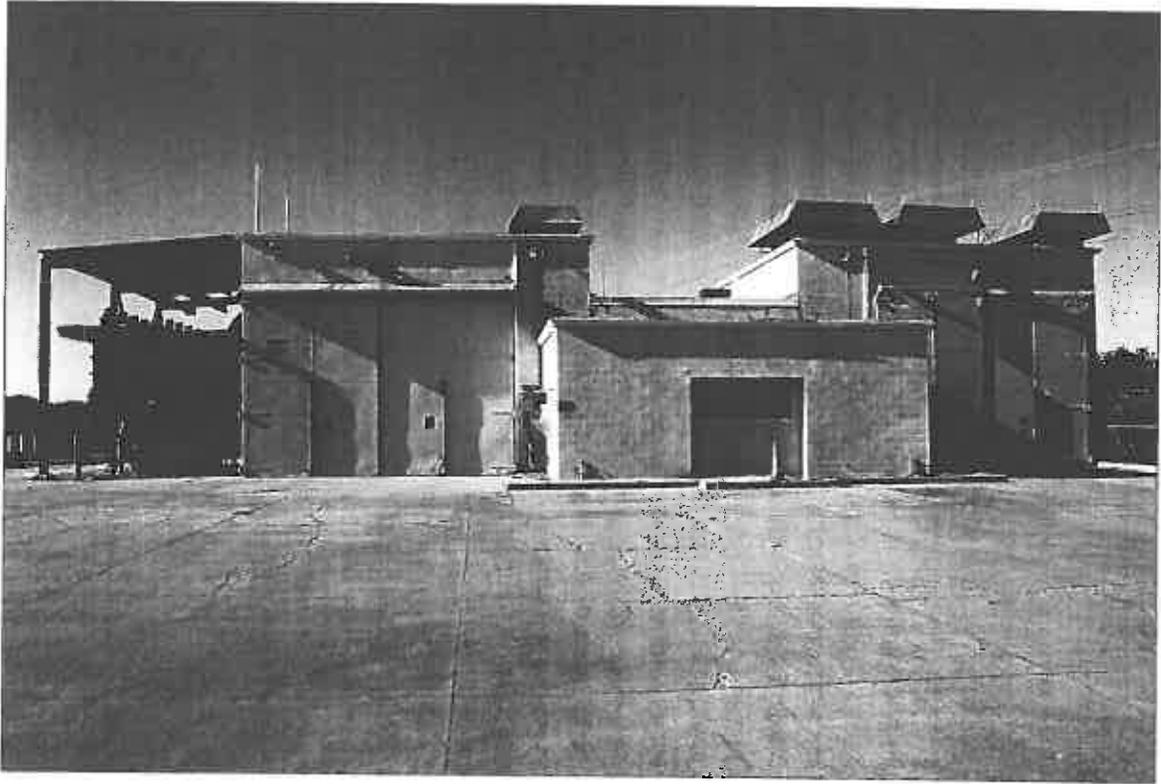
Source: USGS 7.5 Minute Topographic Quadrangle Map, Orsino, FL (1976)

**Historic Structure Form
Continuation Sheets**



Source: ESRI Resource Data, Imagery Layer

**Historic Structure Form
Continuation Sheets**



Multi-Media Blast Facility, Exterior