

FlightSafety Simulation Systems

Vance AFB Trainer Facilities Report, DI-FACR-80966 for PEO-STRI-12-W082 STOCII-12-KOV-0028 JPATS Visual Upgrade

1 Scope

According to SOW paragraph 4.9, SITE SURVEY: *The contractor shall conduct a survey at each installation site at least three months prior to the commencement of the system installation. The purpose of the survey is to discuss and confirm arrangements for the installation and to provide information on any modifications required at the installation site. During the survey, the contractor shall:*

- a. *Review the status of the building or location where the system will be installed.*
- b. *Confirm the required positions of equipment, assemblies, cableways, access ways, and any other unique feature, and measure to insure clearance during the installation.*
- c. *Review and confirm the existing and proposed location of power distribution boxes, switches, water and air supply points and air ducting, and other unique building or location features.*
- d. *Determine the availability of required services.*
- e. *Review and confirm arrangements for hours of work, access to work areas, supporting workshops facilities, and on-site personnel participation.*
- f. *Discuss and resolve any outstanding issues pertaining to the installation program.*
- g. *Confirm all required arrangements for DoD 8500.2 controls identified as being inherited by the system are in existence.*

Table of Contents

1	SCOPE	1
2	VANCE AFB SITE SURVEY	2
2.1	FACILITY STATUS & LOCATION	2
2.2	UPGRADE SUMMARY	3
2.2.1	Phase-1, Building 672	3
2.2.1.1	OFTs in Room 143	3
2.2.1.2	IFT in Room 129	3
2.2.1.3	IFT in Room-125	4
2.2.2	Phase-2, Building-672	4
2.2.2.1	OFTs in Room-141	4
2.2.2.2	IFTs in Room-125	4
2.2.3	Phase-3, Building-672	5
2.2.3.1	OFT in Room-144	5
2.2.3.2	IFTs in Room-128	5
2.3	CONFIRM ACCESS WAYS	5
2.3.1	Top-cap Access	6
2.4	DAMAGED CONCRETE	6
2.5	GOVERNMENT FURNISHED WASTE CONTAINER	6
2.6	CONFIRM POWER DISTRIBUTION	6
2.7	FIRE ALARM	6
2.8	BASE ACCESS & HOURS OF WORK	6
2.9	INFORMATION ASSURANCE	7
3	ACRONYMS & ABBREVIATIONS	7

Figure 1-1: Building 672 Overview



FlightSafety Simulation Systems
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PEO-STRI-12-W082 STOCII-12-KOV-0028 JPATS Visual Upgrade

2 Vance AFB Site Survey

On Tuesday, 10 June 2014, Mr. Darren Bomer, Mr. Joe Wheeler, and Mr. Andy Shead from FlightSafety International met Mr. Dave Batson of Belger Cartage Service at the Vance AFB Visitor's Center. We were sponsored onto the base by Mr. Mike Oaks, the FSSC Maintenance Manager. We met with Mr. Michael Rathmann, the PO and proceeded with the site survey.

2.1 Facility Status & Location

Since the last survey was conducted on 16 August 2010, an exterior electrical panel with power consumption meter has been installed on the left-hand access panel to Room-143, shown in Figure 2-2 below and circled in red. Figure 2-1 below shows the unobstructed condition recorded on 16 August 2010, circled in green.

Figure 2-1: Rm143 Exterior Unobstructed



Figure 2-2: Rm143 Exterior Obstructed



Figure 2-3: Computer Flooring Obstruction



Figure 2-4: Computer Flooring Obstruction



Computer flooring removal in Room-141 and -143 is impeded by installation of electrical conduit and power outlets, as shown in the representative Figure 2-3 and Figure 2-4 above.

FlightSafety Simulation Systems
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PEO-STRI-12-W082 STOCII-12-KOV-0028 JPATS Visual Upgrade

Figure 1-1 on page 1 shows a satellite image of the building with the phases of the upgrade annotated in red text with arrows pointing to the sides of the building and access panels affected by the upgrade.

2.2 Upgrade Summary

- A summary of each phase is provided in the following sub-paragraphs.
- Overall period of performance at Vance AFB is: 23 Sep 2014 – 30 Jan 2015.
- All phases will require the clearance and use of the west parking lot as a staging area for trucks and equipment, as shown in Figure 1-1 on page 1.

2.2.1 Phase-1, Building 672

- Period of performance: 23 Sep 2014 – 24 Oct 2014.
- FSS will publish a detailed installation calendar thirty days in advance of start work.
- Mike Oaks requested that the OFTs in Room-143 be upgraded during Phase-1.
- Mike Oaks requested that the IFT in Room-129 be upgraded during Phase-1.

2.2.1.1 OFTs in Room 143

- The entire bay will be out of service for the duration of the upgrade.
- FSS will remove the unobstructed right-hand access panel, as seen from outside, and upgrade both OFTs from this location, which will require:
 - Uncabling and removal of the equipment cabinets in front of the access panel.
 - Removal of the computer flooring to allow the crane to maneuver into the room and set the stabilization outriggers in place.
- FSS will fabricate a temporary weather resistant panel to secure the bay during lifting operations.
- OFT serial #041
 - Replace top-cap & projectors.
 - Replace VITAL-IX visual with VITAL-X.
- OFT serial #042
 - Replace top-cap & projectors.
 - Replace VITAL-IX visual with VITAL-X.

2.2.1.2 IFT in Room 129

- Other operations can continue in this room during the upgrade process.
- IFT serial #006
 - Replace the screen with a screen mounted on a frame.
 - Replace Barco projector with a Sony HD10 projector in a new location.
 - Replace VITAL-IX visual with VITAL-X.

FlightSafety Simulation Systems
Vance AFB Trainer Facilities Report, DI-FACR-80966 for
PEO-STRI-12-W082 STOCII-12-KOV-0028 JPATS Visual Upgrade

2.2.1.3 IFT in Room-125

- Other operations can continue in this room during the upgrade process.
- IFT serial #038
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.

2.2.2 Phase-2, Building-672

- Period of performance: 3 Nov 2014 – 5 Dec 2014.
- FSS will publish a detailed installation calendar thirty days in advance of start work.

2.2.2.1 OFTs in Room-141

- The entire bay will be out of service for the duration of the upgrade.
- FSS will remove the right-hand access panel, as seen from outside, and upgrade both OFTs from this location, which will require:
 - Uncabling and removal of the equipment cabinets in front of the access panel.
 - Removal of the computer flooring to allow the crane to maneuver into the room and set the stabilization outriggers in place.
- FSS will fabricate a temporary weather resistant panel to secure the bay during lifting operations.
- OFT serial #048
 - Replace the top-cap & projectors.
 - Replace the VITAL-IX visual with VITAL-X.
- OFT serial #052
 - Replace the top-cap & projectors.
 - Replace the VITAL-IX visual with VITAL-X.

2.2.2.2 IFTs in Room-125

- Other operations can continue in this room during the upgrade process.
- IFT serial #038
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.
- IFT serial #049
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.

2.2.3 Phase-3, Building-672

- Period of performance: 5 Jan 2015 – 30 Jan 2015.
- FSS will publish a detailed installation calendar thirty days in advance of start work.

2.2.3.1 OFT in Room-144

- The entire bay will be out of service for the duration of lifting operations.
- Operations on the T1 simulator can resume once the access panels are reinstalled.
- OFT serial #056
 - Replace the top-cap & projectors.
 - Replace the VITAL-IX visual with VITAL-X.

2.2.3.2 IFTs in Room-128

- IFT serial #053
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.
- IFT serial #054
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.
- IFT serial #057
 - Replace the screen with a screen mounted on a frame.
 - Replace the Barco projector with a Sony HD10 projector in a new location
 - Replace the VITAL-IX visual with VITAL-X.

2.3 Confirm Access Ways

- There are no covered areas to stage the top-caps during final assembly by VSS before being lifted into position. Refer to Figure 1-1 on page 1.
- Local authority must insure that the west parking lot is cordoned off to allow unloading of the trucks, disassembly of crates, rigging, removal of access panels, and staging of material.
- It will be necessary to drive the crane into the room. Belger will provide material to temporarily ramp from grade to floor level.
- External rigging company, U.S. Stars, will build a temporary door to close access to Room-143 as required during the upgrade.
- External rigging company, U.S. Stars, will provide PSP or other matting to protect the grass from crane wheels.

2.3.1 Top-cap Access

- To pass through the building opening, the top-cap must be tilted at a 45-degree angle.

2.4 Damaged Concrete

- We noted that the concrete footpath that passes Room-144 is cracked as shown in Figure 2-5 and Figure 2-6 below.

Figure 2-5: Cracked Concrete 1



Figure 2-6: Cracked Concrete 2



2.5 Government Furnished Waste Container

- Scrap top-caps will be cut into 3' x 3' sections and placed in the government furnished waste container for disposal.
- Alternatively, Dave Batson of Belger offered to haul away the top-caps along with the wooden crating material.

2.6 Confirm Power Distribution

- VSS will engage a licensed electrician to reconfigure the electrical distribution panel circuit breakers for the lower amperage visual equipment.

2.7 Fire Alarm

- FSS will engage a licensed fire alarm technician to work with the base Fire Marshal disconnecting and reconnecting the fire alarm systems for the simulators and building.

2.8 Base Access & Hours of Work

- We discussed base access with Mike Oaks.
- We asked Mike Oaks to arrange for each member of the FSS and VSS teams to be issued with a contractor badge that allows free access for the entire period of performance of the upgrade.

FlightSafety Simulation Systems
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PEO-STRI-12-W082 STOCII-12-KOV-0028 JPATS Visual Upgrade

- FlightSafety Teammate Resources will transmit personnel information to Vance AFB.

2.9 Information Assurance

For the purposes of Information Assurance (DoD 8500.2), the FTDs are considered an enclave of Platform IT (PIT) by the USAF; it is self-contained with no external network connections, either wired or wireless.

All computing devices are behind lockable doors; there are no exposed USB, network ports, or disk media drives. It is the responsibility of the local officials to secure the PIT components by locking the doors and access panels and controlling access to the building in which they are housed.

3 Acronyms & Abbreviations

AFB.....	Air Force Base
DoD.....	Department of Defence
DODI-8500.2	Information Assurance Implementation
FSS.....	FlightSafety Simulation Systems
FTD.....	Flight Training Device
IA	Information Assurance
IT.....	Information Technology
JPATS	Joint Primary Aircrew Training System
NAS.....	Naval Air Station
OFT.....	Operational Flight Trainers
PEO-STRI.....	Program Executive Office for Simulation Training & Instrumentation (US Army)
PIT.....	Platform IT
PO/QAR.....	Project Officer / Quality Assurance Representative
PSP.....	Pierced Steel Planking
S/N	Serial Number
SOW.....	Statement Of Work
SPO	Systems Program Office at Wright-Pattison AFB
STOCII.....	Simulation Training and instrumentation Omnibus Contract number two (a US Army contracting vehicle)
USB.....	Universal Serial Bus
USN.....	United States Navy