

Worldwide Integrated Digital Telecommunications Systems

(WIDTS)

Contract No. F04606-97-D-0059

Charleston Air Force Base, SC

Site Specific Installation Plan

for

Power System Upgrade

(Batteries)

D.O. # QP3G

CDRL Sequence No. E005

Issue 1.0

3 October 2001

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List of Attachments

Attachment	Contents
A	Installation and Operating Instructions
B	Battery Installation Checklist
C	Charleston AFB, SC ISRD

INTRODUCTION

Overview

This document, prepared in accordance with DID DI-MGMT-80033, establishes the Site Specific Installation Plan (SSIP) to engineer, furnish, install and test (EFI&T) a Power System Upgrade at Charleston Air Force Base, SC.

General Dynamics shall provide all hardware and software necessary to EFI&T the Power System Upgrade in accordance with the Statement of Work SOW-WIDTS-00-P-0154 dated 2 October 2001. A list of equipment to be installed, as proposed in General Dynamics Delivery Order Proposal WIDTS-00-P-0154 dated 21 December 2000, is as follows:

Host Switch Communications Room

2 strings GNB Absolyte IIP 100A-23 (24 cells)

Major Milestones Required for the Scheduling of Activities

A generic top-down major milestone schedule for the EFT&I of the Power System is as follows:

Power Plant Engineering and Manufacturing: 20 weeks

Equipment Delivery: 1 week (CONUS); 3 weeks (OCONUS)

Installation and Cutover: 1 week

Method of Procedure to be Utilized

A Method of Procedure for installing the power system is attached (Attachment A). This information also contains the operating instructions for the Absolyte IIP Batteries. General Dynamics will install the power equipment in accordance with specifications outlined in the attached document.

Battery Installation Checklist

If a site survey has not been performed, we require the attached battery installation checklist (Attachment B) be completed and submitted to General Dynamics 30 days prior to installation scheduled start. If a site survey has been performed, General Dynamics will follow up with the Government for concurrence.

Responsibility for Each Task Required at Charleston AFB

General Dynamics will perform all tasks identified in the Charleston AFB SOW (SOW-WIDTS-00-P-0154) dated 2 October 2001. The following is a high level summary of requirements necessary to support this effort.

Task	Responsibility	Comments
Identify requirements for storage/ working facilities.	General Dynamics	
Provide storage/working facilities.	Government	
Provide a list of secure or restricted areas where escort, special clearance, or special technical requirements exist (Emergency Operations Centers, firing ranges, etc.), and how WIDTS can get access.	Government	
Identify any planned major military exercises or deployments that might affect our schedule or access to certain areas of the Base.	Government	
Define any specific badge requirements for personnel and vehicles on site.	Government	
If Government clearances are required, provide the required information.	General Dynamics	
Identify the requirements for vehicles on the Base. including speed limits, possession of current license, vehicle registration, insurance, issuing of tickets, and Magistrate appearances.	Government	
Identification of installation testing support required of the Government.	General Dynamics	
Provide required test support.	Government	
Identify site drawings, floor plans, interconnection diagrams, etc.required to plan the EFI&T of the power system.	General Dynamics	
Provide required drawings.	Government	
Perform site prep, if applicable.	Government	
Perform GFE site prep, if applicable.	Government	

Responsibility for each Task Required at Charleston ARB, Cont'd.

Task	Responsibility	Comments
Install equipment new hardware and software as required.	General Dynamics	
Perform system testing on the upgraded power system, this includes both new and relocated equipment (if applicable).	General Dynamics	
Witness and sign off on testing certification sheets, as required.	Government	
Identify Government support required for audits and special post-installation testing.	General Dynamics	
Provide support for all audits and special post-installation testing.	Government	
Identify Government support required for EFI&T of the power system.	General Dynamics	
Provide installation support.	Government	
EFI&T the power system	Government/ General Dynamics	
Remove old power system equipment	General Dynamics (CONUS) Government (OCONUS)	
Run, secure , & terminate commercial AC power from the TPP to the General Dynamics provided rectifiers	Government	
Disposition GFE equipment (if applicable)	Government	

Identification Of Any Planned Disruptions Incident to the Installation

Any disruption of service that will occur at Charleston AFB will be coordinated with the Base communications Officer at least 30 days prior to the outage.

Responsibility Check Lists

Prior to any installation or removal activity, each task will be identified, agreed upon, and assigned to the Government or General Dynamics for completion. This SSIP contains check lists in the paragraphs entitled “Responsibility for Each Task Required at Charleston AFB” to facilitate tracking the accomplishment of all items.

Charleston AFB SSIP

Attachment A

Installation and Operating Instructions for Absolyte IIP Batteries

Charleston AFB SSIP

Attachment B

Installation Checklist

Battery Installation Checklist

Please provide the following information 30 prior to start of installation.

Site:	
Town/City Where Site is Located:	

Delivery Information

Delivery Address for Batteries (no APO Addresses). Include POC and Telephone Number:	
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Does the Building Where Batteries and/or Rectifiers are to be Delivered Have a Loading Dock:	Y or N
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Is the delivery address the same address as the installation address	Y or N
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Installation Information

Installation Address for Batteries (no APO Addresses):	
--	--

Site Entry Information

<p>Please provide a detailed description of the site entry.</p> <ol style="list-style-type: none">1. Does the building have a loading dock?2. Describe the available pathway to power equipment room (height and width).3. If site entry is above ground floor, please provide elevator or stairway information (i.e., location of stairway or elevators relative to site entry point and power equipment room).
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Power Equipment Room Information

<p>Please provide a detailed description of the installation location.</p> <ol style="list-style-type: none">1. Provide drawing (or describe below) depicting room dimensions, equipment layout and equipment dimensions.

Battery Monitoring System Information (if applicable)

This information is required to provide installation details for the Battery Monitoring System

1. Provide a recommended location for the Battery Monitoring System.
2. How far is this location from an AC 110V supply?
3. A POT telephone jack or extension from a PBX is required. Which is available?

Charleston AFB SSIP

Attachment C

Charleston AFB ISRD

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

INSTALLATION SUPPORT REQUIREMENTS DOCUMENT

1.0 INTRODUCTION

The following is an Installation Support Requirements Document (ISRD) required for the EFI& T of the Power System located at Charleston Air Force Base, South Carolina.. This ISRD details a set of support items or services that may be required of the Government during an upgrade/installation.

1.1 Assumptions

This ISRD covers the upgrade/installation of the Absolyte IIP Batteries. It is assumed that existing batteries will be de-installed during this effort.

Post installation tasks such as input of service orders and system operation tasks are also not addressed in this document.

1.2 Reference Material

- RFTP-F04606-95-R-0042, 27 February 1996; Change 1, 21 March 1996
- SM-ALC WIDTS SOO- 95-0001, 23 February 1996
- WIDTS-EPS-95-001 Change 1, 22 March 1996
- RFTP-F04606-95-R-0042, Attachment 2, Instruction for Preparation of Technical Proposals
- SOW- WIDTS-TBD, 16 May 1996
- DI-MGMT-80033, Site Preparation Requirements and Installation Plan
- FFP Delivery Order WIDTS-99-P-0187 dated 16 May 2000 (Issue 1)
- SOW-WIDTS-99-P-0187 dated 26 October 2000

2.0 GOVERNMENT SITE UPGRADE/INSTALLATION SUPPORT TASKS.

2.1 Space Considerations

The Government shall provide adequate space for the battery system. Refer to the Attachment A for details relating to appropriate space requirements for the battery system.

2.2 Environmental Conditions

The Government shall ensure that the appropriate environmental conditions exists for the power system. The appropriate ambient temperatures will result in optimum battery life and

performance. Refer to the Attachment A for details relating to appropriate HVAC requirements for the battery system.

2.3 Floor Loading and Anchoring

The Government shall, if required, provide additional floor bracing and anchoring to support the equipment and infrastructure loading. Refer to the Attachment A for equipment weights, dimensions, loading and anchoring requirements.

2.4 Power Distribution System

General Dynamics will provide to the Government the quantity and size of breakers required; the Government shall:

- 2.4.1 Locate and define AC power feeder services to the Switch Room including information such as number of phases, capacity (KVA), frequency and amplitude.
- 2.4.2 Locate and define the Technical Power Panel (TPP):
 - Number of Breakers
 - Size of Breakers
 - Number of Poles/Breaker
 - Space available in TPP for additional breakers

2.5 AC Power Requirements :

Government shall run, secure, & terminate commercial AC from TPP to any and all General Dynamics or GFE provided power system (to include all wiring and conduit.)

2.6 Storage/Staging Area

The Government shall provide a secure and dry storage/staging facility for all installation-related materials adjacent to or as close by the switch area as is practical.

2.7 Transportation Support

The Government shall relocate the equipment from the storage area to the installation location. The Government will provide transportation equipment to transport the equipment.

2.8 Equipment Access

The Government shall ensure entry to the facility of all equipment.

The Government shall indicate the availability of loading docks and equipment elevators.

The Government shall ensure that there is a route between the unloading area and the Switch Room where no restrictions will be encountered with less clearance than 30" wide (side to side) and 84" high (floor to obstructions).

2.9 Fire Detection/Protection Equipment

The Government shall provide and install any required fire detection and/or protection equipment that may be required according to the governing codes, including OSHA directives.

The Government shall provide a fire protection system.

2.10 Safety/Intrusion Alarms

The Government shall provide a site alarm system per the Government's requirements, such as smoke, water, and intrusion. General Dynamics will, where possible, connect General Dynamics furnished equipment alarms to this system if required by the site SOW.

2.11 Building Code Violations

The Government shall be responsible for correcting all governing building/OSHA code violations (i.e., asbestos, lead paint, etc.).

2.12 Site Renovation/Restoration

The Government shall renovate the site facility as needed prior to installation per the General Dynamics Office drawings.

The Government shall furnish General Dynamics a site specification sheet (interior/exterior building styles). General Dynamics will furnish any materials and/or services required to restore any damages to the work location back to its original condition (including painting, replacing floor tiles, etc.) in accordance with Government specifications.

2.13 Parking

The Government shall make adequate parking space available for the installation team within a reasonable distance from the switch site.

2.14 Personnel Access

The Government shall provide to site survey and installation personnel escorted or unescorted security clearances required for access during normal business hours to all areas associated with the installation. If required, General Dynamics will request access outside normal business hours.

2.15 Personnel Housing

The Government shall provide to overseas location installation personnel information on available Government housing/billeting for installation personnel or provide a list of hotels and locations that support Government per diem travel regulations.(if applicable.)

2.16 Testing and QA/QC Inspections

The Government shall witness and authenticate all testing, QA/QC inspections, and audits.

2.17 Planned System Outages

The Government shall notify General Dynamics as soon as possible of any planned outages.