DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

1. TITLE

Trainer Facilities Report (TFR)

2. IDENTIFICATION NUMBER

DI-FACR-80966

3. DESCRIPTION / PURPOSE

The report defines and identifies criteria and requirements necessary to design and construct/modify a facility in which the trainer and associated equipment will be installed, operated, and maintained. The report identifies contractor and Government responsibilities and the time frame in which the responsibilities will be completed.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
900417	N/NTSC/TD		

7. APPLICATION / INTERRELATIONSHIP

7.1 This Data Item Description (DID) contains the format and content preparation instruction for the data product generated by the specific and discrete task requirements as delineated in the contract.

7.2 This DID is applicable to contracts requiring trainer facility requirements and related items and services.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		N4920

10. PREPARATION INSTRUCTIONS

10.1 Reference Document. The applicable issue of the documents cited herein, including their approval dates and any applicable amendments, notices and revisions, shall be as specified in the contract.

10.2 Trainer Facilities Report. Format and content shall be as follows:

10.2.1 Format. The format of the Trainer Facility Report shall be as specified in ANSI Z39.18-1987, paragraphs 2.2.2, pages 5 and 6 and chapter 3, pages 23 - 38.

10.2.2 Content. The content of the Trainer Facilities Report shall describe the requirements and basic restraints/constraints imposed upon the development of an architectural and engineering (A&E) design for a facility in support of a training device/system. The report shall contain the following sections:

a. Title Page
b. Revisions List
c. Introductions
d. Specific Requirements
e. General Criteria
f. Contractor Responsibilities
g. Government Responsibilities
h. Equipment Delivery Schedule

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

7. APPLICATION/INTERRELATIONSHIP (Cont'd)

7.3 This DID is not intended that all requirements contained herein should be applied to every program phase. Portions of this DID are subject to tailoring (deletion) depending on the program for which it is applied in the contract.

7.4 This DID supersedes UDI-P-25579.

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10. PREPARATION INSTRUCTIONS (Cont'd)

10.2.2.1 Title Page. The title page shall be as specified in ANSI Z39.18-1987 (paragraph 2.2.2 pages 5 & 6) and should include the following:

a. Device title
b. Device number
c. Device location, if applicable
d. Name and address of contractor
e. Date of report
f. Contract number
g. CDRL name and number
h. The name and address of the acquisition agency the report is being prepared for
i. Change number, when applicable

10.2.2.2 Revisions List. A complete record of revisions shall be listed in calendar order. The revision record shall include the following:

a. Change level
b. Date of change
c. Reason for change and affected pages

The revisions shall be marked with a change bar in the margins of each affected page.

10.2.2.3 Introduction. This section shall provide the following:

a. References. A listing of all publications, standards, and specifications utilized in this report.
b. Device Description. A brief description of the training device and its intended use.
c. Location. A general description of the location of the facility where the training device will be housed including the building number and room number, the name of the military installation, city and state.

10. PREPARATION INSTRUCTIONS (Cont'd)

d. Purpose. A brief description of the purpose of the report.

10.2.2.4 Specific Requirements. This portion of the report shall delineate the following specific facility requirements. In developing these requirements, the report shall address whether the device is going to be installed into an existing building or whether the device will require a new building. Requirements shall be tailored to the facility constraints (i.e., facility plans and specifications), wherever possible. Where not possible, the report shall clearly describe facility modifications and additions as required. In each of the following sections of the report identify the responsible party (device contractor or government) for performing each of the facility requirements.

10.2.2.4.1 Civil and Site Plan.

a. Include a site plan, to scale, that shows:

(1) Access requirements: special width requirements; exterior access requirements
(2) Required relationships between outside items (i.e., cooling tower, A/C chiller, parking curb,loading docks, etc.)
(3) Clearances
(4) Parking, unloading, staging area and paving

b. Include the following civil requirements:

(1) Access roads

(a) Axle or wheel loads on roads
(b) Special lane widths of roads
(c) Turn and weight provisions for special vehicles
(d) Jack loads; transfer requirements
(e) Grades on roads

(2) Fencing and security

10.2.2.4.2 Architectural.

a. Include a detailed floor plan, to scale, of the facility and equipment layout to show:

(1) Dimensional requirements of floor space required for the trainer; space requirements for storage of spare parts and work area for off-line maintenance support.
(2) Doors; widths and heights of entrances

10. PREPARATION INSTRUCTIONS (Contd)

(3) Clear-space requirements (no column intrusion allowed)
(4) Location of electrical or mechanical equipment
(5) Minimum equipment clearance requirements (back, front, sides, top)

b. Provide a table listing each item of equipment keyed to the facility layout. Include:

(1) Equipment name
(2) Quantity required
(3) Length, width, height of each item of equipment
(4) Weight of each item of equipment; a total of equipment weight by individual space
(5) Facility provided equipment (i.e., power conditioner, raised flooring, chilled water lines, etc.)

c. Include the following architectural aspects:

(1) Provide a table listing the associated height, width and length of the following areas:

(a) Device area/areas
(b) Spare parts storage
(c) Maintenance support

(2) Raised flooring

(a) Height
(b) Required cut-outs (if cut-outs are the Government's responsibility, cut-outs must be dimensioned from existing facility items (i.e., walls, columns, etc.).

(3) Types and sizes of special doors required
(4) Floor level requirements; floor drainage and required sloping
(5) Window requirements, if any
(6) Controlling dimension constraints (i.e., motion envelope)
(7) Cable/hydraulic trench requirements
(8) Acoustical noise suppression requirements

10.2.2.4.3 Structural.

a. Provide a plan view, to scale, showing the location and dimensions of special foundations, pads, trenches, etc.

b. Include the following structural aspects:

10. PREPARATION INSTRUCTIONS (Contd)

(1) Floor loading (static loads, dynamic loads, moments)

(a) Foundation and footing specifications
(b) Trench details
(c) Vibration/Isolation requirements

(2) Elevators; access ramps; personnel ladders; catwalk structures

(3) Crane and hoist location and loads, if any

10.2.2.4.4 Mechanical.

a. Include the following mechanical aspects in tabular form indicating requirements by each piece of equipment and space:

(1) Heating, Ventilation, and Air Conditioning (HVAC) environmental limits including Operating, Non-Operating and Storage Temperature, Relative Humidity and Ventilation for:

(a) Equipment
(b) Maintenance area
(c) Spare parts storage

(2) Equipment cooling requirements heat dissipation (BTU/Hr.); specialized types of cooling; air flow, in-out temperatures, and relative humidity of supply air.

(3) Personnel heat loads to be dissipated

b. Plumbing and drainage requirements
c. Piping - All piping and associated valves/connectors (chilled water, compressed air, propane, etc.)
d. Fire protection (detection/suppression)
e. Disposal of environmentally hazardous material - A list shall be provided of the type, quantity, and frequency of disposal of any waste product associated with the operation of the trainer (i.e., hydraulic fluid)

10.2.2.4.5 Electrical.

a. Electrical power requirements shall be provided in tabular format indicating separate requirements for each component with the totals for the complete system indicated at the bottom of the table. The tabular format will show:

(1) Line voltages; tolerances
(2) Currents on each phase; maximum demand and continuous load

10. PREPARATION INSTRUCTIONS (Contd)

(3) Frequencies; tolerances
(4) Phase
(5) Kilovolt-amperes (KVA); connected load, maximum demand and continuous load
(6) Power factor
(7) Line regulation and filtering

b. Include the following electrical aspects:

(1) Provide single line power diagrams and an electrical power plan

(2) Illumination - Specify illumination and lighting requirements for all areas of the trainer and maintenance areas; required, specify type and location of dimmer controls.

c. Lightning Protection - Specify lightning protection devices for trainer and personnel
d. Communication requirements, if any
e. Grounding and grounding systems
f. Provide cable routing layout; specify details of cable routing between equipment
g. Electrical requirements for maintenance support area
h. Emergency shut-off switch(es) and locations
i. Details on connection to Government provided disconnects

10.2.2.5 General Criteria.

10.2.2.5.1 Safety - Identify personnel hazards and the safety precautions to be implemented for the protection of personnel; specify safety precautions to be observed during installation of the trainer.

10.2.2.5.2 Special Handling Equipment - Specify the type and capacities of any special handling equipment required from the device site to install trainer device components.

10.2.2.5.3 Security - Specify the level of classification of the equipment and the amount (square footage) of all classified space requirements including storage. Refer to FAR 7.105, subpart 4.4.

10.2.2.5.4 Special Requirements (i.e., Radio Frequency (RF) shielding or any criteria not covered, but considered critical.)

10.2.2.6 Device Contractor Responsibilities. The report shall briefly list all the responsibilities of the device contractor in support of the design and construction of the facility and installation of the trainer.

10. PREPARATION INSTRUCTIONS (Cont'd)

10.2.2.7 Government Responsibilities. This section will describe in detail all Government responsibilities not covered in the body of the report.

10.2.2.8 Equipment Delivery Schedule.

10.2.2.8.1 Provide the delivery dates of the equipment to the installation site.

10.2.2.8.2 Provide, if applicable, the date of start-of-work for device contractor facility modifications/additions, etc.