DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Radiation Hazard Control Procedures (RHCP)	DI-SAFT-80184A

3. DESCRIPTION / PURPOSE

3.1 The RHCP provides the data describing and defining radio frequency (RF) power density and x-ray characteristics for ground electronic systems, subsystems, equipment, components, and end items.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
950809	F/AFDTC-SE		

7. APPLICATION / INTERRELATIONSHIP

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

7.2 This DID is applicable to all ground electronic systems, subsystems, equipment, components, and end items acquired by the government. In addition, it is applicable to airborne emitters which plan testing at Eglin test ranges.

7.3 This DID supersedes DI-SAFT-80184.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		F7161

10. PREPARATION INSTRUCTIONS

10.1 Format. Contractor format is acceptable.

10.2 Content. The RHCP contains technical information describing and defining RF power density and x-ray characteristics for electronic systems. Where applicable, previously furnished documentation shall be referenced throughout the package. The RHCP includes the following information:

10.2.1 Preliminary data. This section contains information which will indicate the prediction of RF power densities for personnel directly in front of, adjacent to, and behind the radiating element of the end item and adjacent to any component of the end item which is suspected of producing 0.01 watt/cm^2 under any conditions of operations and maintenance including conditions wherein maintenance required visual inspection with enclosures removed. This section includes a detailed list of the proposed measuring equipment.

10.2.2 Final data. The information based on calculations or actual measurements of the end item which will accurately define and illustrate areas wherein an RF power density is unsafe for personnel. Describe the operating characteristics under which the information was derived along with the operating parameters of the end item.

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

Block 10, Preparation Instructions (Continued)

10.2.3 Baseline data. Includes the following information:

a. Nomenclature of emitter: AN/(number) or manufacturer and model number.

b. Date by which construction or modification is projected to start and scheduled date of operation.

c. Maximum transmitter peak power (kilowatts).

d. Type of emission (pulse, CW, voice, etc.).

e. Pulse width (micro seconds) and pulse repetition frequency (pulses/second); or maximum duty cycle.

f. Frequency and mission bandwidth.

g. Antenna characteristics:

(1) Type of antenna and dimensions.

(2) Gain in dB.

(3) 3dB beamwidth (degrees or radians).

(4) Antenna center height above ground level in feet.

(5) Scan rate; horizontal and vertical (surveillance radars only) in degrees/second.

h. System insertion losses between transmitter and antenna in dB.

i. Polarization of transmitted wave.

j. Safety devices for azimuth and elevation control (stops/locks/cutouts; mechanical/electrical/software) with a description of the device and limitations.

10.2.4 X-radiation. Describe the method employed to determine the levels of x-radiation, including description of the instrumentation to be used for the determination for both quality and quantity. Describe the method by which measurements for these factors shall be taken throughout the operating capability range of the electronic or electrical equipment. Includes preliminary and final x-ray survey data.