DATA ITEM DESCRIPTION

Title: HEALTH HAZARD ASSESSMENT REPORT (HHAR)

Number: DI-SAFT-80106C
Approved Date: 20150612
AMSC Number: F9556
Limitation: N/A
DTIC Applicable: No
GIDEP Applicable: No
Preparing Activity: 40 (AFMC/SE)
Project Number: SAFT-2015-008
Applicable Forms: N/A

Use/Relationship: The Health Hazard Assessment Report (HHAR) is used to systematically identify and evaluate health hazards, evaluate proposed hazardous materials, and propose measures to eliminate or control these hazards through engineering design changes or protective measures to reduce the risk to an acceptable level.

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

b. This DID is related to DI-SAFT-80101, *System Safety Hazard Analysis Report (SSHAR)*; DI-SAFT-80102, *Safety Assessment Report (SAR)*; and DI-SAFT-80105, *System Safety Program Progress Report (SSPPR)*, and DI-HFAC-81975, *Noise Measurement Report*.

(Copies of these DIDs are available online at http://quicksearch.dla.mil.)

c. This DID supersedes DI-SAFT-80106B.

Requirements:

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

2. Format. The HHAR shall be in the contractor's format.

3. Content. The HHAR shall contain the following:

3.1 References. A list of source materials used in preparing the report. Include for example, government and contractor reports, standards, criteria, technical manuals and specifications. If references are numerous, put them in a bibliography as an appendix.

3.2 System description. A brief identification of the system and its purpose. Address significant health hazard issues that are identified later in the report.

3.3 Background. A description of the system and its intended operation. Include pertinent components or subsystems which contribute most to a health hazard, The identity of the intended users and the type of protective clothing and equipment, if any, available to the user. A summary of the evaluations or assessments performed on system prototypes or developmental models.

3.4 Identification of health hazards issues. A description and discussion of each potential or actual health hazard issue of concern for each subsystem or component. A health hazard is an existing or likely condition, inherent to the operation, maintenance, transport or use of materiel that can cause death, injury, acute or chronic illness, disability, or reduced job performance of personnel by exposure to physiological stresses.

3.4.1 System breakout. Use subparagraphs for each subsystem or component, with additional subparagraphs for each health hazard discussion. Include sufficient detail to clearly define the specific problem, issued involved and reasoning behind the analyses.

3.4.2 Material information. For each proposed and alternative material, include the following:

a. Material identification. Include material identity; common or trade name; chemical name; chemical abstract service number; national stock number (NSN) or local stock number; physical form (solid, liquid, gas); and manufacturers and suppliers.

b. Material use and quantity. Include component name, description, and code, and/or operations details for the material. Total system and program, life-cycle quantities to be used. For mixtures, concentrations for each ingredient.

c. Hazard identification. The detrimental effects of the material on the system, personnel, environment, or facilities. Specific health hazards are: chemical hazards, physical hazards (noise, heat/cold stress, etc.), biological hazards, ergonomic hazards, ionizing and non-ionizing radiation hazards, and other hazards that may be formed by the test, operation, maintenance, and disposal of the system. Hazard identification also includes pathway description (how the hazard reaches a living organism) and exposure characterization (substance quantities and concentrations).

d. Toxicity assessment. A description of the expected frequency, duration, and amount of exposure. Include the reference documentation and methods used to determine potency/toxicity assessment factors and calculations.

e. Risk calculations. Include classification of severity and probability of occurrence, acceptable levels of risk, any missing information, and discussions or uncertainties in data or calculations.

3.5 Assessment of health hazard issues. Include an analysis of data, observations, findings, reports and other sources of information against health standards and criteria. A discussion of the potential effect of the health hazards identified. An assessment of the risk of the health hazards based on hazard severity and hazard probability as described in MIL-STD-882, *System Safety*. Include when the hazards may be expected under normal or unusual operating or maintenance conditions. Include analysis methodologies and techniques, information sources (including Safety Data Sheets), and standards and criteria for acceptable exposures and controls.

(Copies of MIL-STD-882 are available online at http://quicksearch.dla.mil.)

3.6 Recommendations. Include a description of the recommended actions that should be taken to eliminate, reduce or control each actual or potential health hazard described. What is the effect that each action may have on the risk of the health hazard(s)?

3.7 Summary. Include a summary of the major recommendations.

End of DI-SAFT-80106C