This Standard establishes the classification of characteristics (COC) procedures required to support the MX aerospace vehicle equipment (AVE) program. The standard is intended for use by contractors to classify material and product characteristics as to their critical, major or minor importance.
The Report Documentation Page (RDP) is used in announcing and cataloging reports. It is essential that this information be consistent with the rest of the report. Particularly, the page and the form copy instructions for filling in each block of the form follow. It is important to stay within the lines to avoid optical scanning requirements.

Block 1. **Agency Use Only** (Leave blank)

Block 2. **Report Date**. Full publication date including day, month, and year, if available (e.g., 1 Jan 88). Must cite at least the year.

Block 3. **Type of Report and Dates Covered**. State whether report is interim, final, etc. If applicable, enter inclusive report dates (e.g., 10 Jun 87 - 30 Jun 88).

Block 4. **Title and Subtitle**. A title is taken from the part of the report that provides the most meaningful and complete information. When a report is prepared in more than one volume, repeat the primary title, add volume number, and include subtitle for the specific volume. On classified documents enter the title classification in parentheses.

Block 5. **Funding Numbers**. To include contract and grant numbers; may include program element number(s), project number(s), task number(s), and work unit number(s). Use the following labels:

- C - Contract
- G - Grant
- PE - Program
- PR - Project
- TA - Task
- WU - Work Unit
- Element
- Accession No

Block 6. **Author(s)**. Name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. If editor or compiler, this should follow the name(s).

Block 7. **Performing Organization Name(s) and Address(es)**. Self-explanatory.

Block 8. **Performing Organization Report Number**. Enter the unique alphanumeric report number(s) assigned by the organization performing the report.

Block 9. **Sponsoring Organization Name(s) and Address(es)**. Self-explanatory.

Block 10. **Sponsoring Organization Report Number**. If known.

Block 11. **Supplementary Notes**. Enter information not included elsewhere such as

Prepared in cooperation with ... Trans of ... To be published in ... When a report is revised, include a statement whether the new report supersedes or supersedes the older report.

Block 12a. **Distribution/Availability Statement**. Denotes public availability or limitations. Cite any availability to the public. Enter additional limitations or special markings in all capitals (e.g., NOFORN, REL. ITAR).

- **DOD** - See DoD 5230.24, "Distribution Statements on Technical Documents."
- **DOE** - See authorities.
- **NASA** - See Handbook NHB 2200.2
- **NTIS** - Leave blank

Block 12b. **Distribution Code**.

- **DOD** - Leave blank.
- **DOE** - Enter DOE distribution categories from the Standard Distribution for Unclassified Scientific and Technical Reports.
- **NASA** - Leave blank.
- **NTIS** - Leave blank.

Block 13. **Abstract**. Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.

Block 14. **Subject Terms**. Keywords or phrases identifying major subjects in the report.

Block 15. **Number of Pages**. Enter the total number of pages.

Block 16. **Price Code**. Enter appropriate price code (NTIS only).

Blocks 17 - 19. **Security Classifications**. Self-explanatory. Enter U.S. Security Classification in accordance with U.S. Security Regulations (e.g., UNCLASSIFIED). If form contains classified information, stamp classification on the top and bottom of the page.

Block 20. **Limitation of Abstract**. This block must be completed to assign a limitation to the abstract. Enter either UL (unlimited) or SAR (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited.
SAMSO STANDARD

CLASSIFICATION OF CHARACTERISTICS
FOR THE
MX AEROSPACE VEHICLE EQUIPMENT

| Accession For | NTIS   | CRA&I | DTIC   | TAB |
|               |        |       |        |     |
|               |        |       |        |     |
|               |        |       |        |     |
| Justification|        |       |        |     |

By
Distribution

Availability Codes

<table>
<thead>
<tr>
<th>Dist</th>
<th>Avail and/or Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A-1
Classification of Characteristics for MX Aerospace Vehicle Equipment

SANSO Standard 77-5

1. This SANSO Standard is approved for use by the Space and Missile Systems Organization (AFSC).

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: SAMSO/MNNP, Norton Air Force Base, CA 92409.
1. SCOPE

1.1 Purpose. This standard establishes the classification of characteristics (COC) procedures required to support the MX aerospace vehicle equipment (AVE) program. The standard is intended for use by contractors to classify material and product characteristics as to their critical, major or minor importance.

1.2 Application. The extent to which this standard applies to any given contract will be established by the contract statement of work.

2. REFERENCED DOCUMENTS
(Not applicable)

3. DEFINITIONS

3.1 Characteristic. A physical, chemical, visual, functional, or any other identifiable property of a product or material.

3.2 Critical characteristic. A critical characteristic is one that judgement and experience indicate, if defective, could result in hazardous or unsafe conditions for individuals using or maintaining the product, or could result in nonperformance of the tactical function of the MX missile. A characteristic is hardness critical if the characteristic is required in order to meet the nuclear environmental requirements. Characteristics which are intrinsic to meeting the overall design requirements and which would be required independent of the nuclear environmental requirements are not considered hardness critical.

3.3 Major characteristic. A major characteristic is one other than critical that judgement and experience indicate, if defective, could result in failure, or materially reduce the usability of the product for its intended purpose.

3.4 Minor characteristic. A minor characteristic is one that judgement and experience indicate, if defective, could not materially reduce the usability of the product for its intended purpose, or is a departure from established standards having no significant bearing on the effective use or operation of the product.

4. GENERAL REQUIREMENTS

4.1 Classification of characteristic procedure. The contractor shall develop a program to identify, control, and maintain the COC for material and products. The requirements of this standard shall apply
to subcontractors or suppliers having design responsibility for products or equipment. The program shall provide for the COC of material and products as an integral part of the design and analysis effort. Documents which comprise the design disclosure package shall be reviewed for critical and major characteristics. The supporting rationale for critical and major characteristics shall be established. Classification shall be assigned by design engineering personnel, but will use supporting rationale from other disciplines and efforts such as:

a. Reliability - failure mode and effects analysis
b. Safety - hazard analysis
c. Hardness critical item assessment
d. Age sensitive item analysis
e. Part application review
f. Nondestructive inspection requirement
g. Corrosion prevention and control.

4.2 Classification of characteristic implementation. As a minimum, COC shall be a consideration during:

a. Preparation of manufacturing and quality planning
b. Development of sampling plans
c. Determination of calibration intervals
d. Evaluation of material review actions
e. Preservation and packaging planning.

4.3 Coordination. The COCs and rationale shall be reviewed and coordinated with the following contractor organizations:

a. Procurement/material
b. Reliability
c. System safety
d. Quality engineering
e. Manufacturing engineering

f. Nuclear hardness and survivability.

Updated COCs shall be reviewed by the above disciplines.

4.4 Coding. The following codes shall be used to identify COCs:

(CC) = critical characteristics

(HC) = critical characteristic for hardness

(MC) = major characteristics

Minor characteristics need not have a coding.

5. DETAILED REQUIREMENTS
(Not applicable)