



AFCTN Test Report 94-128

AFCTB-ID
94-074



TMSS Parsing Test



MIL-M-87929A, Appendix F, Nondestructive Inspection



Document Type Definition



MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

20 June 1994



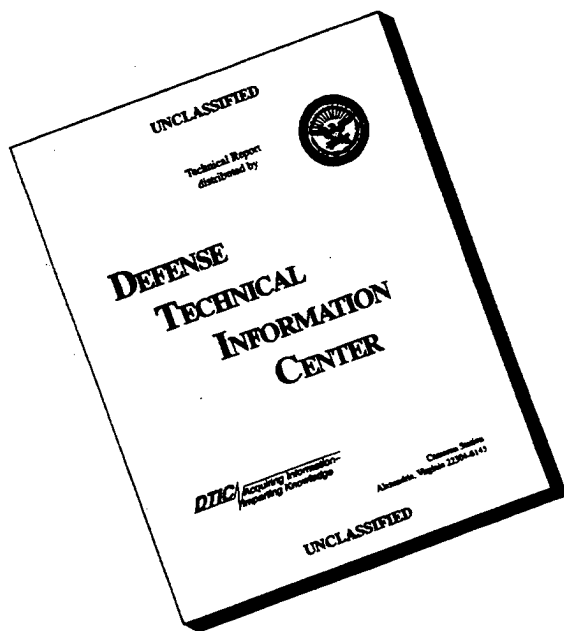
Prepared for
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Document Type Definition**

For:

**MAXIMA Corporation
DISA Contract #DCA100-93-D-0065**

Quick Short Test Report

20 June 1994

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Air Force CALS Test Bed

Notification of Test Results

20 June 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

MAXIMA Corporation

Identified as follows:

Title:	MIL-M-87929A, Appendix F, Nondestructive Inspection DTD Parsing Test
Program:	DISA
Program Office:	DISA
Contract No.:	DCA100-93-D-0065
QSTR No.:	AFCTB-ID 94-074

Received on the following media: **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	N/A
MIL-D-28000A IGES:	N/A
MIL-M-28001B SGML:	Fail
MIL-R-28002A Raster:	N/A
MIL-D-28003 CGM:	N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed
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Contents

1.	Introduction.....	1
1.1.	Background.....	1
1.2.	Purpose.....	2
2.	Test Parameters.....	3
3.	1840A Analysis.....	4
3.1.	External Packaging.....	4
4.	SGML Analysis.....	4
4.1.	Exoterica Validator.....	5
4.2.	Exoterica XGML Normalizer.....	6
4.3.	Public Domain sgmls.....	7
4.4.	Sema Mark-it.....	8
5.	Conclusions and Recommendations.....	9
6.	Appendix A - Detailed SGML Analysis.....	10
6.1.	Exoterica Validator.....	10
6.2.	Exoterica XGMLNormalizer Parser.....	18
6.3.	Public Domain sgmls Log.....	18
6.4.	Sema Mark-it Log.....	22
6.5.	D929AF0.DTD.....	24

1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALs) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALs standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALs initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax, using several commercial and public domain SGML parsers, prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

2. Test Parameters

Test Plan: AFCTB 94-074

Date of Evaluation: 20 June 1994

Evaluator: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/AV-2P
4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator: Kay Hill
MAXIMA Corporation
2372 Lakeview Drive
Beavercreek OH 45431
(513) 427-5888

Data Description: Technical Manual Test
1 DTD

Data Source System:

Text/SGML
SOFTWARE
Unknown

Evaluation Tools Used:

MIL-M-28001 (SGML)
PC 486/50
Exoterica XGMLNormalizer v1.2e3.2
Exoterica Validator v2.2 ex1
McAfee & McAdam Sema Mark-it v2.3
Public Domain sgmls 1.1

Standards Tested: MIL-M-28001B

3. 1840A Analysis

3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. They were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]>" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation MIL-M-87929A, Appendix F, Nondestructive Inspection, called a sequence of companion DTDs, each in turn, as illustrated by the diagram below. These DTDs were delivered on the same diskette as the DTD to be evaluated. The DTDs were not changed except to point to the succeeding DTD in the sequence and to insert the location of the ISO character set files in the D784CB0.A3 DTD.

```
<!-- MIL-M-87929A Nondestructive Inspection DTD -->
```

```
D929FA0.ORG --> D929AA0.ORG ---> D807BA0.A1
```

```
└─> D784CB0.A3
```

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

Note 1. Entity parameters defined more than once is a valid SGML construct. The duplicate definition errors and/or warnings in this analysis do not indicate any problems.

Note 2. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

4.1 Exoterica Validator

The DTD file was evaluated using the *Exoterica Validator* exl parser. The basic DTD was modified by placing the concrete syntax file and "`<!DOCTYPE doc ["` at the start and the `"]>`" at the end. No errors were reported by the parser. The TOTAL CAPACITY was increased to 250000 for this set of DTDs after receiving messages about exceeding capacities.

The parser reported 106 total warnings of three types. The first type warning was a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 83,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%list".
      <!ENTITY % list "(seqlist | randlist | deflist)" >
      ****
-->
```

The second type warning related to elements defined but not used in any content model. See Note 2 above.

```
<!-- **Warning** in "\xgml\9474.dtd", line 346:
  An element is not allowed in the document instance because it does
  not
  appear in any accessible content model or it is completely excluded.
  The element is "APPENDIX".
-->
```

The third type warning was an element used but not defined.
This warning indicates an error in the DTD syntax.

```
<!-- **Warning** in "\xgml\9474.dtd", line 346:
  An element name specified in a USEMAP declaration, ATTLIST declaration or
  content model is not defined by an ELEMENT declaration.
  The element name is "UNIT". -->
```

4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "`<!DOCTYPE doc ["` were added to the start and "`"]>`" to the end of the file. One warning was issued by this utility for an element used but not defined. This warning indicates an error in the DTD syntax.

```
C:\XGML\XGMLNORM.EXE --
Warning on line 165 in file 9474.dtd:
An undeclared element name was used in a content model.
The element is 'UNIT'.
```

Also reported was a TOTCAP exceeded warning. The TOTCAP was reset to 270000 for the DTD.

4.3 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* parser version 1.1. The file was modified by adding the "<!DOCTYPE doc [" to the start and "]">" to the end of the file as stated in the comments in the DTD. The D929AA0.ORG, D807BA0.A1 and D784CB0.A3 files were used as the point to files. A TOTCAP exceeded error was reported as 264576.

sgmls: SGML error:
Capacity limit TOTALCAP exceeded by 64576 points

Twenty-seven total warnings of two types were reported by the parser. The first type of warning was a duplicate definition. See Note 1 above.

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 83 in declaration parameter 4:
Duplicate specification occurred for "%list"; duplicate ignored

The second type warning related to an element used but not defined. This warning indicates an error in the DTD syntax.

sgmls: Warning at \ws\9474.dtd, line 274 at record end:
Element "UNIT" used in DTD but not defined

4.4 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start and "]">" to the end of the file. The parser reported errors that did not appear to be consistent with the rest of the parsers. The files used were the exact files parsed by the Exoterica parsers.

It was noted that the parser got lost and stopped. Shown below is the error message and the part of the DTD it relates to. From the capacities it appears that the entire DTD and subset were not parsed.

```
<!--*** file:\xgml\9474.dtd line:267 pos:9712
Unknown parameter entity name (wp) used in reference.
If name is spelt correctly check that the entity declaration in the
DTD contains a PERO (e.g. %) symbol followed by a space.-->

<!ELEMENT cleaningwp      - - (%wp;, wpforewd, safesum?,
                             techinfo, swp*)
                             +(figure | table | foldout) >
<!ATTLIST cleaningwp      chgno NUMBER "0"
                             %bodyatt;
                             %secur; >
```

5. Conclusions and Recommendations

The file D929FA0.ORG, MIL-M-87929A, Appendix F, Nondestructive Inspection, does not conform to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification. This conclusion is derived from the parser test warnings which indicate elements are used that are not defined.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 83,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%list".
      <!ENTITY % list "(seqlist | randlist | deflist)" >
      ~~~~~
-->
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 85,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%spcpara".
      <!ENTITY % spcpara "(warning?, caution?, note?)" >
      ~~~~~
-->
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 87,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%fpi".
      <!ENTITY % fpi "(para0, (para0 | %list; | symsect | abbrsect | %spcpara;)*,
      ~~~
-->
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 90,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%forwp".
      <!ENTITY % forwp "(wpidinfo, contents, illuslist?, tablelist?, purpose, sco
      ~~~~~
-->
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 94,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%sttec".
      <!ENTITY % sttec "(wpidinfo, para0, (toollist, para0*)?, (eqplist, para0*)?
      ~~~~~
-->
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 31,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, lep, verstat?, contents)" >
      ~~~~~
```



```
-->
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 45,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%yesorno".
      <!ENTITY % yesorno "NUMBER" >
      ~~~~~
-->
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 88,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%ipbforwd".
      <!ENTITY % ipbforwd "(modelcover, serialization?, finding?, simassem?,
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 18,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%math".
      <!ENTITY % math "IGNORE" >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 33,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%mathtxt".
      <!ENTITY % mathtxt " " >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 37,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%shortitleuse".
      <!ENTITY % shortitleuse "IGNORE" >
      ~~~~~
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 45,  
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,  
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,  
      used in "\xgml\9474.dtd", line 120:
```

```
A parameter entity name has been declared more than once.  
The entity is "%shorttitle".
```

```
<!ENTITY % shorttitle " " >  
      ~~~~~
```

```
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 47,  
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,  
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,  
      used in "\xgml\9474.dtd", line 120:
```

```
A parameter entity name has been declared more than once.  
The entity is "%yesorno".
```

```
<!ENTITY % yesorno "NUMBER" >  
      ~~~~~
```

```
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 50,  
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,  
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,  
      used in "\xgml\9474.dtd", line 120:
```

```
A parameter entity name has been declared more than once.  
The entity is "%itemid".
```

```
<!ENTITY % itemid  
      ~~~~~
```

```
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 62,  
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,  
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,  
      used in "\xgml\9474.dtd", line 120:
```

```
A parameter entity name has been declared more than once.  
The entity is "%content".
```

```
<!ENTITY % content  
      ~~~~~
```

```
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 71,  
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,  
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,  
      used in "\xgml\9474.dtd", line 120:
```

```
A parameter entity name has been declared more than once.  
The entity is "%bodyatt".
```

```
<!ENTITY % bodyatt  
      ~~~~~
```

```
-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 82,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%list".
      <!ENTITY % list "(seqlist | randlist | deflist)" >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 86,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%spcpara".
      <!ENTITY % spcpara "(warning?, caution?, note?)" >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 107,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, warnpage?, chginsst?, lep, verstat?,
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 117,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%fpi".
      <!ENTITY % fpi "(para0, (para0 | %list; | symsect | abbrsect |
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 126,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
      used in "\xgml\9474.dtd", line 120:
      A parameter entity name has been declared more than once.
      The entity is "%titles".
      <!ENTITY % titles "title %shorttitle;" >
      ~~~~~
-->
```

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 133,
used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
used in "\xgml\9474.dtd", line 120:

A parameter entity name has been declared more than once.
The entity is "%fig".

```
<!ENTITY % fig "(%titles;, (subfig+ | (graphic | macrograph |
```

-->

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 165,
used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
used in "\xgml\9474.dtd", line 120:

A parameter entity name has been declared more than once.
The entity is "%bodyele".

```
<!ENTITY % bodyele "(chapter, chapter+, ddchapter?)" >
```

-->

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 190,
used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
used in "\xgml\9474.dtd", line 120:

A parameter entity name has been declared more than once.
The entity is "%graphatt".

```
<!ENTITY % graphatt
```

-->

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 228,
used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
used in "\xgml\9474.dtd", line 120:

A parameter entity name has been declared more than once.
The entity is "%entryatt".

```
<!ENTITY % entryatt
```

-->

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 248,
used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
used in "c:\ws\929a.dtd" (entity "%m87929a"), line 205,
used in "\xgml\9474.dtd", line 120:

A parameter entity name has been declared more than once.
The entity is "%lrp".

```
<!ENTITY % lrp "(tmidno, title)+>
```

-->

<!-- **Warning** in "\xgml\9474.dtd", line 346:

An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "APPENDIX".

-->

<<<< PART OF MESSAGE FILE REMOVED HERE >>>>

The element is "BODY".
The element is "CHAPTER".
The element is "CHGINSSHT".
The element is "CHGLIST".
The element is "CHGREC".
The element is "CONTLIST".
The element is "CUBE".
The element is "DATE".
The element is "DATEINC".
The element is "DDCHAPTER".
The element is "DDDESC".
The element is "DDINDEX".
The element is "DDINTRO".
The element is "DDLIST".
The element is "DESC".
The element is "DIM".
The element is "DOC".
The element is "DOCIPB".
The element is "DOCPART".
The element is "DOCWP".
The element is "ECPNO".
The element is "EMPTYWT".
The element is "ESDS".
The element is "FINDING".
The element is "FOLDOUT".
The element is "FOLDSECT".
The element is "FOREWORD".
The element is "GLOSSARY".
The element is "HCI".
The element is "INDEX".
The element is "INSERTPG".
The element is "INTRO".
The element is "IPBFORWARD".
The element is "IPBWP".
The element is "LOADWT".
The element is "MFRLIST".
The element is "MODELCOVER".
The element is "NUMINDX".
The element is "PARTNAME".
The element is "PARTSTD".

The element is "PENAPP".
The element is "PGNO".
The element is "PL".
The element is "PLO".
The element is "PL1".
The element is "PL2".
The element is "PL3".
The element is "PL4".
The element is "PL5".
The element is "PL6".
The element is "PL7".
The element is "PREFACE".
The element is "QUICKCHGEXPL".
The element is "RATD".
The element is "REAR".
The element is "REFDES".
The element is "REINTEST".
The element is "REMARKS".
The element is "REMOVEPG".
The element is "REPTTEST".
The element is "RFDSINDEX".
The element is "SECTION".
The element is "SERIALIZATION".
The element is "SERTABLE".
The element is "SHORTTITLE".
The element is "SHTNOEXPL".
The element is "SIMASSEM".
The element is "SMRCODE".
The element is "SMREXPL".
The element is "SSSN".
The element is "TYPENO".
-->
<!-- **Warning** in "\xgml\9474.dtd", line 346:
An element name specified in a USEMAP declaration,
ATTLIST declaration or
content model is not defined by an ELEMENT declaration.
The element name is "UNIT". -->
The element is "UNITS".
The element is "USEONCODE".
The element is "USEONCODELIST".
The element is "USEONEXPL".
The element is "VOLUME".
The element is "WARNPAGE".
The element is "WP".
-->

```
<!-- Capacity points/limits:
TOTALCAP =267749/270000
ENTCAP   =13536/200000
ENTCHCAP =20451/70000
ELEMCAP  =9696/70000
GRPCAP   =78464/100000
EXGRPCAP =1952/70000
EXNMCAP  =5440/70000
ATTCAP   =99392/200000
ATTCHCAP =2367/70000
AVGRPCAP =36192/70000
NOTCAP   =96/70000
NOTCHCAP =163/70000
IDCAP    =0/70000
IDREFCAP =0/70000
MAPCAP   =0/70000
LKSETCAP =0/70000
LKNMCAP  =0/70000
```

```
--><!-- 0 errors and 106 warnings reported. -->
```

6.2 Exoterica XGMLNormalizer Parser

C:\XGML\XGMLNORM.EXE --
Warning on line 346 in file 9474.dtd:
An undeclared element name was used in a content model.
The element is 'UNIT'.

6.3 Public Domain sgmls Log

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 83 in declaration parameter 4:
Duplicate specification occurred for "%list"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 85 in declaration parameter 4:
Duplicate specification occurred for "%spcpara"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 88 in declaration parameter 4:
Duplicate specification occurred for "%fpi"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 92 in declaration parameter 4:
Duplicate specification occurred for "%forwp"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
Warning at c:\ws\929a.dtd, line 95 in declaration parameter 4:
Duplicate specification occurred for "%sttec"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
Warning at c:\ws\807b.dtd, line 31 in declaration parameter 4:
Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
Warning at c:\ws\807b.dtd, line 45 in declaration parameter 4:
Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
Warning at c:\ws\807b.dtd, line 90 in declaration parameter 4:
Duplicate specification occurred for "%ipbforwd"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 18 in declaration parameter 4:
Duplicate specification occurred for "%math"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 33 in declaration parameter 4:
Duplicate specification occurred for "%mathtxt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:
Duplicate specification occurred for "%shorttitleuse"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:
Duplicate specification occurred for "%shorttitle"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 47 in declaration parameter 4:
Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 60 in declaration parameter 4:
Duplicate specification occurred for "%itemid"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 69 in declaration parameter 4:
Duplicate specification occurred for "%content"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 80 in declaration parameter 4:
Duplicate specification occurred for "%bodyatt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 82 in declaration parameter 4:
Duplicate specification occurred for "%list"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 86 in declaration parameter 4:
Duplicate specification occurred for "%spcpara"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:
Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 118 in declaration parameter 4:
Duplicate specification occurred for "%fpi"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 126 in declaration parameter 4:
Duplicate specification occurred for "%titles"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 134 in declaration parameter 4:
Duplicate specification occurred for "%fig"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:
Duplicate specification occurred for "%bodyele"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 204 in declaration parameter 4:
Duplicate specification occurred for "%graphatt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 238 in declaration parameter 4:
Duplicate specification occurred for "%entryatt"; duplicate ignored

sgmls: In file included at \ws\9474.dtd, line 48:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 248 in declaration parameter 4:
Duplicate specification occurred for "%lrp"; duplicate ignored

sgmls: Warning at \ws\9474.dtd, line 274 at record end:
Element "UNIT" used in DTD but not defined

sgmls: SGML error:
Capacity limit TOTALCAP exceeded by 64576 points

TOTALCAP 264576
ENTCAP 13536
ENTCHCAP 17214
ELEMCAP 9696
GRPCAP 78464
EXGRPCAP 2016
EXNMCAP 5440
ATTCAP 99392
ATTCHCAP 2367
AVGRPCAP 36192
NOTCAP 96
NOTCHCAP 163
IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCP 0

6.4 Sema Mark-it Log

<!--*** file:\xgml\9474.dtd line:267 pos:9712

Unknown parameter entity name (wp) used in reference.

If name is spelt correctly check that the entity declaration in the DTD contains a PERO (e.g. %) symbol followed by a space.-->

<!--*** file:\xgml\9474.dtd line:267 pos:9715

Syntax error. Valid tokens at this point are: Ee s pero dtgo name grpo rniPCDATA .-->

<!--*** file:\xgml\9474.dtd line:267 pos:9748

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:268 pos:9782

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:268 pos:9801

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:268 pos:9814

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:269 pos:9849

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:269 pos:9860

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:269 pos:9871

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:269 pos:9884

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:269 pos:9893

Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:270 pos:9921
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:270 pos:9928
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9474.dtd line:272 pos:9994
Illegal end of entity within a delimited text (e.g. a declaration).
ISO 8879 prohibits declarations that start in one entity and end in another.-->

ATTCNT --100-- 47
ATTSPLEN --960-- 0
BSEQLEN --960-- 0
DTAGLEN --16-- 0
DTEMPLN --16-- 0
ENTLVL --16-- 3
GRPCNT --32-- 22
GRPGTCNT --96-- 27
GRPLVL --16-- 6
LITLEN --3048-- 730
NAMELEN --32-- 13
NORMSEP --2-- 0
PILEN --240-- 0
TAGLEN --960-- 0
TAGLVL --24-- 0
MSDLVL --24-- 1
TOTALCAP --270000-- 181017
ENTCAP --200000-- 16288
ENTCHCAP --70000-- 12154
ELEMCAP --70000-- 6688
GRPCAP --100000-- 50784
EXGRPCAP --70000-- 1152
EXNMCAP --70000-- 2464
ATTCAP --200000-- 65344
ATTCHCAP --70000-- 1599
AVGRPCAP --70000-- 24288
NOTCAP --70000-- 96
NOTCHCAP --70000-- 160
IDCAP --70000-- 0
IDREFCAP --70000-- 0
MAPCAP --70000-- 0
LKSETCAP --70000-- 0
LKNMCP --70000-- 0

6.5 D929AF0.DTD

<!-- ***** START OF FILE ***** -->

<!-- SUPPLEMENT NOTICE: This file is made available to provide the user with a digital representation of the DTD found in Appendix F of MIL-M-87929A. This file is incomplete without MIL-M-87929A. -->

<!-- NOTE: The start and end of this file are marked with a row of asterisks. If these rows are not present the file may not be complete! -->

<!-- MIL-M-87929A Nondestructive Inspection DTD -->

<!-- The following set of declarations may be referred to by using a public entity as follows:

```
<!ENTITY % m87929ndi PUBLIC "-//USA-DOD//DTD MIL-M-87929A NDI//EN" >
% m87929ndi;
-->
```

<!-- NOTE: In order to parse the following DTD subset alone, append the following statement to the beginning of the file:

```
<!DOCTYPE docndi {
```

and the associated "]>" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

```
<!ENTITY % m87929a PUBLIC "-//USA-DOD//DTD MIL-M-87929A//EN" >
```

```
<!ENTITY % sttec "(wpidinfo, para0, (toollist, para0*)?, (eqplist, para0*)?,
(ndieqplist, para0*)?, (ndireflist+, para0*)?, (eddyeqplist, para0*)?,
(uteqplist, para0*)?, (genndi, para0*)?, (consum, para0*)?, (rmconsum,
para0*)?, (fpmconsum, para0*)?, (magconsum, para0*)?)" >
```

```
<!ENTITY % list "(seqlist | randlist | deflist)" >
```

```
<!ENTITY % spcpara "(warning?, caution?, note?)" >
```

```
<!ENTITY % fpi "(para0, (para0 | %list; | symsect | abbrsect | %spcpara;)*,
internatlstd?, lrp?, tctolist?)" >
```

```
<!ENTITY % forwp "(wpidinfo, contents, illuslist?, tablelist?, purpose, scope,
%fpi;, manstru, coverage?, indexscheme, locinfo, para0*, leadpartic, (para0 |
(maintcon?, envcont?, warrprov?))* , barealum?, cladalum?, tmimpred?)" >
% m87929a;
```

<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

```
<!ELEMENT access      - o (%nparcon;, subpara2*) >
<!ATTLIST access      tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT alloytype   - o (%text;) >
<!ATTLIST alloytype   %secur; >
```

```
<!ELEMENT application - o (%text;) >
<!ATTLIST application %secur; >
```

```
<!ELEMENT backupndi   - o (%parazero;) >
<!ATTLIST backupndi   tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT barealum    - - ((alloytype, heattreat, iacs)+) +(ftnote |
                          warning | caution | note) >
<!ATTLIST barealum    tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT cladalum    - - ((application, (alloytype, heattreat,
                          iacs)+) +(ftnote | warning | caution |
                          note) >
<!ATTLIST cladalum    tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT defdesc     - o (%parazero;) >
<!ATTLIST defdesc     tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      verified %yesorno; "0"
                      %bodyatt;
                      %secur; >
```

```
<!ELEMENT docndi      - - (front, aiwp, forewordwp, sttecwp, repndiwp,
                           ndiwp+, ddwp?) -(foldout) +(pgbrk | brk) >
<!ATTLIST docndi      service %service; "AF"
                           %docatt;
                           %secur; >

<!ELEMENT dwgno       - o (%text;) >
<!ATTLIST dwgno       %secur; >

<!ELEMENT eddyeqplist - - ((method, (typedes, (cage | (name,
                           address))), figno, nomen, use)+)+
                           +(ftnote | warning | caution | note) >
<!ATTLIST eddyeqplist tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT equipreq   - o (%nparcon;, subpara2*) >
<!ATTLIST equipreq   tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT fpmconsum  - - ((nomen, (spec | (partno, (cage | (name,
                           address))))), use, reference)+ +(ftnote |
                           warning | caution | note) >
<!ATTLIST fpmconsum  tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT genndi     - - ((nomen, specreq+)+) >
<!ATTLIST genndi     %secur; >

<!ELEMENT genndiseta - o (%parazero;) >
<!ATTLIST genndiseta tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT heattreat  - o (%text;) >
<!ATTLIST heattreat  %secur; >
```

```
<!ELEMENT iacs      - o (%text;) >
<!ATTLIST iacs      %secur; >

<!ELEMENT magconsum - - ((nomen, (spec | (partno, (cage | (name,
                                address))))), use, reference)+  +(ftnote |
                                warning | caution | note) >
<!ATTLIST magconsum tocentry %yesorno; "1"
                    shortentry %yesorno; "0"
                    verified %yesorno; "0"
                    %bodyatt;
                    %secur; >

<!ELEMENT method    - o (%text;) >
<!ATTLIST method    %secur; >

<!ELEMENT ndieqplist - - ((typeses, (cage | (name, address)), figno,
                                nomen, use)+) +(ftnote | warning | caution
                                | note) >
<!ATTLIST ndieqplist tocentry %yesorno; "1"
                    shortentry %yesorno; "0"
                    verified %yesorno; "0"
                    %bodyatt;
                    %secur; >

<!ELEMENT ndimethod - o (access, prepinsp, equipreq, ndissetup,
                                supplies, subpara1+) >
<!ATTLIST ndimethod %secur; >

<!ELEMENT ndireflist - - ((typeses, (cage | (name, address)), dwgno,
                                nomen, use)+) +(ftnote | warning | caution
                                | note) >
<!ATTLIST ndireflist tocentry %yesorno; "1"
                    shortentry %yesorno; "0"
                    verified %yesorno; "0"
                    %bodyatt;
                    %secur; >

<!ELEMENT ndissetup - o (%nparcon;, subpara2*) >
<!ATTLIST ndissetup tocentry %yesorno; "1"
                    shortentry %yesorno; "0"
                    verified %yesorno; "0"
                    %bodyatt;
                    %secur; >
```

```
<!ELEMENT nditable      - - (figure, (figindex, nomen, dwgno, reference)+
                             +(ftnote | warning | caution | note) >
<!ATTLIST nditable      tocentry %yesorno; "1"
                             shortentry %yesorno; "0"
                             verified %yesorno; "0"
                             %bodyatt;
                             %secur; >

<!ELEMENT ndiwp        - - (%wp;, wpforewd, safesum?, nditable+, safing,
                             partdesc, defdesc, genndissetup, reproc,
                             ndimethod, backupndi, syssecur?) +(figure |
                             table) >
<!ATTLIST ndiwp        chgno NUMBER "0"
                             %secur;
                             %bodyatt; >

<!ELEMENT partdesc     - o (%parazero;) >
<!ATTLIST partdesc     tocentry %yesorno; "1"
                             shortentry %yesorno; "0"
                             verified %yesorno; "0"
                             %bodyatt;
                             %secur; >

<!ELEMENT prepinsp     - o (%nparcon;, subpara2*) >
<!ATTLIST prepinsp     tocentry %yesorno; "1"
                             shortentry %yesorno; "0"
                             verified %yesorno; "0"
                             %bodyatt;
                             %secur; >

<!ELEMENT repndiwp     - - (%wp;, wpforewd, safesum?, techinfo, swp*)
                             +(figure | table) >
<!ATTLIST repndiwp     chgno NUMBER "0"
                             %secur;
                             %bodyatt; >

<!ELEMENT reproc       - o (%parazero;) >
<!ATTLIST reproc       tocentry %yesorno; "1"
                             shortentry %yesorno; "0"
                             verified %yesorno; "0"
                             %bodyatt;
                             %secur; >
```

```
<!ELEMENT rmconsum      - - ((nomen, (spec | (partno, (cage | (name,
                               address))))), use, reference)+)  +(ftnote |
                               warning | caution | note) >
<!ATTLIST rmconsum      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT safing        - o (%parazero;) >
<!ATTLIST safing        tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT specreq       - o (%text;) >
<!ATTLIST specreq       %secur; >

<!ELEMENT supplies      - o (%nparcon;, subpara2*) >
<!ATTLIST supplies      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT syssecur      - o (%parazero;) >
<!ATTLIST syssecur      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT uteqplist     - - ((method, (typedes, (cage | (name, address)),
                               figno, nomen, use)+)+)  +(ftnote | warning |
                               caution | note) >
<!ATTLIST uteqplist     tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!-- ***** END OF FILE ***** -->
```
