



AFCTN Test Report 94-135

AFCTB-ID
94-082



TMSS Parsing Test



MIL-M-9977J, Appendix A, Nuclear Weapons Basic Information and Loading Procedures



Document Type Definition



MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

23 June 1994



Prepared for
Electronic Systems Center
Air Force CALS Program Office
HQ ESC/AV-2
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Dayton OH 45431-1672

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Nuclear Weapons Basic Information and Loading Procedures
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For:
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Quick Short Test Report

23 June 1994

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Air Force CALS Test Bed

Notification of Test Results

23 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-9977J, Appendix A, Nuclear Weapons Basic Information and Loading Procedures, DTD Parsing Test
Program:	DISA
Program Office:	DISA
Contract No.:	DCA100-93-D-0065
QSTR No.:	AFCTB-ID 94-082

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:	Pass
MIL-R-28002A Raster:	N/A
MIL-D-28003 CGM:	N/A

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

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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.....	6
4.4.	Sema Mark-it.....	6
5.	Conclusions and Recommendations.....	7
6.	Appendix A - Detailed SGML Analysis.....	8
6.1.	Exoterica Validator.....	8
6.2.	Exoterica XGMLNormalizer Parser.....	10
6.3.	Public Domain sgmls Log.....	10
6.4.	Sema Mark-it Parser Log.....	11
6.5.	D977JA0.DTD.....	12

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 94-082

Date of Evaluation: 23 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. The files 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-9977J, Appendix A, Nuclear Weapons Basic Information and Loading Procedures, called for a companion DTD. This DTD was delivered on the same diskette as the DTD to be evaluated. This DTD was used without change except to insert the location of the ISO character set files. See diagram below.

MIL-M-9977J Nuclear Weapons Basic Information and Loading Procedures DTD

D977JAO.ORG --> 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. Some of the parsers report mixed content model warnings. The use of such content models is normally unnecessary and therefore not normally recommended. Record boundaries within elements of associated instances may be misinterpreted where a mixed content model exists in the DTD.
- Note 3. 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 parser reported 31 total warnings of two types. The first type warning was for a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "\xgml\9482.dtd", line 114:
  A parameter entity name has been declared more than once.
  The entity is "%shorttitle".
  <!ENTITY % shorttitle " " >
  .....
```

-->

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

<!-- **Warning** in "\xgml\9482.dtd", line 488:

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 "ADDRESS".

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. No errors or warnings were issued by this utility.

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. File D784CB0.A3 location was inserted into the DTD. The parser reported nine total warnings of the same type. This type warning was for duplicate definitions. See Note 1 above.

sgmls: Warning at \ws\9482.dtd, line 42 in declaration parameter 4:
Duplicate specification occurred for "%shorttitle"; duplicate ignored

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 no errors or warnings for the file.

5. Conclusions and Recommendations

The file D977JA0.ORG, MIL-M-9977J, Appendix A, Nuclear Weapons Basic Information and Loading Procedures conforms to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate invalid SGML syntax. However, the mixed content model flagged by warnings from one of the five parsers, may cause problems in the use of this DTD. See Note 3, Paragraph 4, above.

Recommend the DTD be changed to eliminate the mixed content model. If this is not possible, users should be alerted to the potential problems that may occur in the application of the DTD, and proper guidance should be provided users to avoid the potential problems in the use of this DTD.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "\xgml\9482.dtd", line 114:
  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 37,
  used in "\xgml\9482.dtd", line 167:
  A parameter entity name has been declared more than once.
  The entity is "%shorttitleuse".
  <!ENTITY % shorttitleuse "IGNORE" >
  ~~~~~
-->
  The entity is "%shorttitle".
  The entity is "%shorttitle".
  The entity is "%frnt".
  The entity is "%titles".
  The entity is "%bodyele".
  The entity is "%nparcon".
  The entity is "%sect".
-->
<!-- **Warning** in "\xgml\9482.dtd", line 488:
  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 "ADDRESS".
-->
  The element is "CHAPTER".
  The element is "CHGINSSHT".
  The element is "CHGLIST".
  The element is "CHGREC".
  The element is "DDDESC".
  The element is "DDINDEX".
  The element is "DDINTRO".
  The element is "DDLIST".
  The element is "DDSHEET".
  The element is "DOC".
  The element is "DOCPART".
  The element is "ILLUSLIST".
  The element is "INSERTPG".
  The element is "INTRO".
  The element is "PGNO".
  The element is "PREFACE".
```

The element is "REMOVEPG".
The element is "TABLELIST".
The element is "VOLUME".
The element is "WARNPAGE".

-->

<!-- Capacity points/limits:
TOTALCAP =157638/200000
ENTCAP =13664/200000
ENTCHCAP =13412/70000
ELEMCAP =5952/70000
GRPCAP =36896/70000
EXGRPCAP =864/70000
EXNMCAP =1632/70000
ATTCAP =61984/200000
ATTCHCAP =1535/70000
AVGRPCAP =21440/70000
NOTCAP =96/70000
NOTCHCAP =163/70000
IDCAP =0/70000
IDREFCAP =0/70000
MAPCAP =0/70000
LKSETCAP =0/70000
LKNMCAP =0/70000

-->

<!-- 0 errors and 31 warnings reported. -->

6.2 Exoterica XGMLNormalizer Parser

No reported errors or warnings.

6.3 Public Domain sgmls Log

sgmls: Warning at \ws\9482.dtd, line 42 in declaration parameter 4:
Duplicate specification occurred for "%shorttitle"; duplicate ignored

sgmls: In file included at \ws\9482.dtd, line 95:
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\9482.dtd, line 95:
Warning at i:\dtd\784c.dtd, line 41 in declaration parameter 4:
Duplicate specification occurred for "%shorttitle"; duplicate ignored

sgmls: In file included at \ws\9482.dtd, line 95:
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\9482.dtd, line 95:
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\9482.dtd, line 95:
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\9482.dtd, line 95:
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\9482.dtd, line 95:
Warning at i:\dtd\784c.dtd, line 177 in declaration parameter 4:
Duplicate specification occurred for "%nparcon"; duplicate ignored

sgmls: In file included at \ws\9482.dtd, line 95:
Warning at i:\dtd\784c.dtd, line 206 in declaration parameter 4:
Duplicate specification occurred for "%sect"; duplicate ignored

TOTALCAP 157320
ENTCAP 13664
ENTCHCAP 13062
ELEMCAP 5952
GRPCAP 36896
EXGRPCAP 896
EXNMCAP 1632
ATTCAP 61984
ATTCHCAP 1535
AVGRPCAP 21440
NOTCAP 96
NOTCHCAP 163

IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCPA 0

6.4 Sema Mark-it Parser Log

ATTCNT --100-- 48
ATTSPLN --960-- 0
BSEQLN --960-- 0
DTAGLN --16-- 0
DTEMPLN --16-- 0
ENTLVL --16-- 2
GRPCNT --32-- 22
GRPGTCNT --96-- 27
GRPLVL --16-- 5
LITLEN --3048-- 730
NAMELEN --32-- 13
NORMSEP --2-- 0
PILEN --240-- 0
TAGLEN --960-- 0
TAGLVL --24-- 0
MSDLVL --24-- 2
TOTALCAP --200000-- 166021
ENTCAP --200000-- 16896
ENTCHCAP --70000-- 13158
ELEMCPA --70000-- 5952
GRPCAP --70000-- 42272
EXGRPCAP --70000-- 896
EXNMCPA --70000-- 1632
ATTCAP --200000-- 61984
ATTCHCAP --70000-- 1535
AVGRPCAP --70000-- 21440
NOTCAP --70000-- 96
NOTCHCAP --70000-- 160
IDCAP --70000-- 0
IDREFCAP --70000-- 0
MAPCAP --70000-- 0
LKSETCAP --70000-- 0
LKNMCPA --70000-- 0

6.5 D977JA0.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 D of MIL-M-5096E. This file is incomplete without MIL-M-5096E. -->

<!-- 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-9977J Nuclear Weapons Basic Information and Loading Procedures DTD -->

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

<!ENTITY % mnucbasld PUBLIC "-//USA-DOD//DTD MIL-M-9977J NBL//EN"

>

%mnucbasld;

-->

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

<!DOCTYPE docnucbasld [

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

<!-- ENTITY DECLARATIONS -->

<!ENTITY % bodyele "(basinfo, bomweapld, practbl)" >

<!ENTITY % clno "INCLUDE" >

<!ENTITY % shortitleuse "INCLUDE" >

<![%shortitleuse; [

<!ENTITY % shortitle ", shortitle?" >

]]>

<!ENTITY % shortitle " " >

<!ENTITY % titles "title %shortitle;" >

<!ENTITY % unll "(%titles;, warning*, caution*, note*, (para,
note*)?, safing, preunload, unload)" >

<!ENTITY % genl "(%titles;, gensafreq, emergproc, airdesc,
suppeqdesc, bomweapdesc, genproc, airprep, fctfuncchk,
strayvoltchk, section*)" >

<!ENTITY % rack1 "(airprepld, loadprep, (cartins & load),
postldinsp, dlayflt, priorlnch)" >

<!ENTITY % lp1 "(%titles;, general, rackload)" >

<!ENTITY % sect "(%titles;, para0+)" >

<!ENTITY % ep "(%sect;)" >

<!ENTITY % frnt "(idinfo, lep, verstat?, contents, foreword,
safesum?)" >

<!ENTITY % nparcon "(warning*, caution*, note*, %titles;, para,
note*, (step1, step1+)?)" >

<!ENTITY % ldprep "(%nparcon;, subpara2*)" >

<!ENTITY % sedesc "(%sect;)" >

<!ENTITY % gsr "(%sect;)" >

<!ENTITY % scop "(%nparcon;, subpara2*)" >

<!ENTITY % aprep "(%titles;, acftprep, accprep)" >

<!ENTITY % plaunch "(%nparcon;, subpara2*)" >

<!ENTITY % gproc "(%sect;)" >

<!ENTITY % tk1 "(%nparcon;, subpara2*)" >

<!ENTITY % adesc "(%sect;)" >

<!ENTITY % sss "(%nparcon;, subpara2*)" >

<!ENTITY % unl2 "(%nparcon;, subpara2*)" >

<![%cldno; [

<!ENTITY % m38784c PUBLIC "-//USA-DOD//DTD MIL-M-38784C//EN" >

%m38784c;

]]>

<!ENTITY ferry "Ferry checklist procedures are provided in the TO &to;. For amplification of the checklist steps, refer to comparable steps presented in this technical order." >

<!ENTITY note1 "<note>Refer to Chapter 1, Section &sec1;; for applicable aircraft. Refer to Chapter 1, Section &sec2;; for FCT/functional checks. Refer to Chapter 1, Section &sec3;; for stray voltage procedures.</note> <step1>Perform aircraft preparation.<step1>Perform required FCT/functional checks.<step1>Perform required stray voltage checks." >

<!ENTITY note2 "Omit step 1 if a stray voltage check was performed during aircraft preparation or FCT/functional check, provided no additional power has been applied to the aircraft. &step;." >

<!ENTITY note3 "Omit steps 1 through 3 if impulse cartridges were installed as part of the loading, and a stray voltage check was performed during aircraft preparation or FCT/functional check, provided no additional power has been applied to the aircraft. &step;." >

<!ENTITY note4 "Omission of, or options relating to the following step(s) may be dictated by the local commander." >

<!ENTITY note5 "Omission of the following step(s), may be authorized by the local commander." >

<!ENTITY sec1 "User supplies information here." >

<!ENTITY sec2 "User supplies information here." >

<!ENTITY sec3 "User supplied information here." >

<!ENTITY step "<step1>Perform required stray voltage checks.
<step1> Check impulse cartridges for serviceability.
<step1>Install impulse cartridges." >

<!ENTITY to "User supplies information here." >

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

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

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

<!ELEMENT airdesc      - o (%adesc;) >
<!ATTLIST airdesc      tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        %secur;
                        %bodyatt; >

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

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

<!ELEMENT basinfo      - - (%gen1;) +(figure | table | foldout)
>
<!ATTLIST basinfo      tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        %secur;
                        %bodyatt; >

<!ELEMENT bombweapsect - o (%lpl;, unloadproc, ferryproc) >
<!ATTLIST bombweapsect tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        %bodyatt;
                        %secur; >
```

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

<!ELEMENT bomweapld        - - ((%lpl;, unloadproc, ferryproc) |
                               (bombweapsect, bombweapsect+))
                               +(figure | table | foldout) >
<!ATTLIST bomweapld        tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %secur;
                           %bodyatt; >

<!ELEMENT cartins         - o (%tk1;) >
<!ATTLIST cartins         tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %secur;
                           %bodyatt; >

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

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

<!ELEMENT docnucbasld     - - (front, body, rear?) +(pgbrk |
                               brk).>
<!ATTLIST docnucbasld     service %service; 'AF'
                           %secur;
                           %docatt; >

<!ELEMENT emergproc      - o (%ep;) +(figure | table | foldout)
>
<!ATTLIST emergproc      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >
```

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

<!ELEMENT ferryproc      - o (%titles;, warning*, caution*,
note*, (para, note*)?, deploy,
strnonstr, nonstrtostr) >
<!ATTLIST ferryproc      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %secur;
                           %bodyatt; >

<!ELEMENT general        - o (%titles;, warning*, caution*, note*,
(para, note*)?, scope, suppequipdesc,
specsafreq) >
<!ATTLIST general        tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           verified %yesorno; "0"
                           %secur;
                           %bodyatt; >

<!ELEMENT genproc        - o (%gproc;) >
<!ATTLIST genproc        tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %secur;
                           %bodyatt; >

<!ELEMENT gensafreq      - o (%gsr;) >
<!ATTLIST gensafreq      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

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

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

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

<!ELEMENT postldinsp    - o (%tk1;) >
<!ATTLIST postldinsp    tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        verified %yesorno; "0"
                        %secur;
                        %bodyatt; >

<!ELEMENT practbl       - - ((%lpl;, unloadproc) | (practblsect,
practblsect+)) +(figure | table |
foldout) >
<!ATTLIST practbl       tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        verified %yesorno; "0"
                        %secur;
                        %bodyatt; >

<!ELEMENT practblsect   - o (%lpl;, unloadproc) >
<!ATTLIST practblsect   tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        %secur;
                        %bodyatt; >

<!ELEMENT preunload     - o (%tk1;) >
<!ATTLIST preunload     tocentry %yesorno; "1"
                        shortentry %yesorno; "0"
                        verified %yesorno; "0"
                        %secur;
                        %bodyatt; >
```

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

<!ELEMENT rackload      - o (%titles;, warning*, caution*, note*,
                             (para, note*)?, %rackl;) >
<!ATTLIST rackload      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %secur;
                          %bodyatt; >

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

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

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

<!ELEMENT strayvoltchk  - o (%sect;) >
<!ATTLIST strayvoltchk  tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %secur;
                          %bodyatt; >

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

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

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

<!ELEMENT unload         - o (%unl2;) >
<!ATTLIST unload         tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %secur;
                          %bodyatt; >

<!ELEMENT unloadproc     - o (%unl1;) >
<!ATTLIST unloadproc     tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

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