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NOT MEASUREMENT
SENSITIVE

MIL-PRF-28000A
AMENDMENT 1
14 DECEMBER 1992

PERFORMANCE SPECIFICATION

DIGITAL REPRESENTATION FOR COMMUNICATION OF PRODUCT DATA: IGES APPLICATION SUBSETS AND IGES APPLICATION PROTOCOLS

TO ALL HOLDERS OF MIL-PRF-28000A

1. Make the following pen and ink changes:

PAGE 3

Section 2.1.2 Other government documents.

"IGES V5.0 Initial Graphics Exchange Specification, Version 5.0, September 1990"
change to;

"IGES V5.1 Initial Graphics Exchange Specification, Version 5.1, September 1991"

PAGE 4

Section 3.1.3 Physical file structure.

"The binary form shall not be used."
change to:

"The binary and compressed ASCII forms shall not be used."

add:

"Section 3.1.3.1 IGES data file header records. As specified in MIL-STD-1840, file of IGES data for interchange shall begin with a data block containing header records that characterize the IGES information. The header record data block shall be present in all data interchanges regardless of the physical media or transfer mechanism used.

The MIL-STD-1840 "dtype" data header record specifies the IGES subset or protocol and shall have permissible values of 1,2,3,4, or 5. This value shall be 1 to indicate Class I, 2 to indicate Class II, 3 to indicate Class III, 4 to indicate Class IV, or 5 to indicate Class V.

AMSC N/A

AREA IPSC

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Section 3.2.1.3.2 Global section.

"23	4-6	Y
24	0-7	N Default to zero"

change to:

"23	6-7	Y*
24	0-7	N Default to zero

***If the data file includes entities from Appendix J, Untested entities, (indicated by an * by the listing of the entity in the table) then Global Field 23 must be 6."**

PAGE 10

Section 3.2.2.2 ASME Y14.26M entity subset specification.

after	"120	Surface of Revolution	1	2"
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(end of page 10)

add:

"122		Tabulated Cylinder	1	2
124	0	Transformation Matrix	1	"

PAGE 11

Section 3.2.2.2 ASME Y14.26M entity subset specification.

Remove the following line from Table II:

"406	5	Line Widening	1	14"
------	---	---------------	---	-----

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Section 3.2.2.2 ASME Y14.26M entity subset specification.

"14. Only allowed use of the line widening property shall be when physical model space width is important."

change to:

"14. Reserved"

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Section 3.2.2.4.2 Global section.

"23	4-6	Y
24	0-7	N Default to zero"

change to:

"23	6-7	Y*
24	0-7	N Default to zero

*If the data file includes entities from Appendix J, Untested entities, (indicated by an * by the listing of the entity in the table) then Global Field 23 must be 6."

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TABLE III ASME Y14.26M entity content of electrical/electronic application subset.

"108	Plane - Unbounded"
------	--------------------

change to:

"108	0	Plane - Unbounded"
------	---	--------------------

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Section 3.2.3.5.2 Global section.

"23	4-6	Y
24	0-7	N Default to zero"

change to:

"23	6-7	Y*
24	0-7	N Default to zero

*If the data file includes entities from Appendix J, Untested entities, (indicated by an * by the listing of the entity in the table) then Global Field 23 must be 6."

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TABLE IV ASME Y14.26M entity content of geometry for NC manufacturing subset.

"108	Plane	1"
------	-------	----

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change to:

	"108	0	Plane - Unbounded	16	
	108	-1,1	Plane - Bounded	1	"
after	"144		Trimmed Parametric Surface	1	12"
add:	"202		Angular Dimension	1	
	206		Diameter Dimension	1	
	210		General Label	1	7
	212		General Note	1	8
	214	1	Leader Arrow, Wedge	1,9	10"

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TABLE IV. ASME Y14.26M entity content of geometry for NC manufacturing subset.

delete:

"402	9	Associativity, Single Parent	1	11"
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NOTES for TABLE IV

- "1. DE Field 4, Line Font Pattern, shall be 1, 2, 3, 4, or 5 DE Field 9c, Entity Use, shall be 00, 01, 02, 03, or 05
DE Field 9d, Hierarchy, shall be 01."

change to:

- "1. DE Field 4, Line Font Pattern, shall be 1, 2, 3, 4, or 5
DE Field 9c, Entity Use, shall be 00, 01, 02, 03, or 05. "

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NOTES for TABLE IV:

- "11. PD indices 3 through 2+NC, pointers to parent and children, shall be pointers to planes (Type 108)."

change to:

- "11. Reserved."

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NOTES for TABLE IV:

add: "16. DE Field 9c, Entity Use, shall be 00, 01, 02, 03, or 05."

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Section 3.2.4.4.2 Global section.

"23	4-6	Y
24	0-7	N Default to zero"

change to:

"23	6-7	Y*
24	0-7	N Default to zero

*If the data file includes entities from Appendix J, Untested entities, (indicated by an * by the listing of the entity in the table) then Global Field 23 must be 6."

PAGE 37

Section 6.2d Acquisition requirements.

Delete item 6.2d and reletter subsequent items.

PAGE 38

Section 6.4 Survey of start section requirements.

"This IFES file conforms to the MIL-D-2800 with	S 3"
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Change to:

"This IGES file conforms to the MIL-D-28000 with	S 3"
--------------------------------------------------	------

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - SH
Air Force - 16
DLA - DH

Review Activities:

Army - AM
Air Force - 01, 02
NSA - NS
DISA - DC
NASA - NA
Others - NIST, DOE, GPO, NCS

User Activities:

OASD - IR
Army - AL, AT, AV, EA, ER, GL, ME, MI, MR, SM, TE, TM
Navy - AS, EC, OS, SA, YD
Air Force - 11, 13, 14, 17, 18, 19, 68, 79, 99

Preparing Activity:

OASD (P&L) - DO

Agent:

Air Force - 16
(Project IPSC - 0268)

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I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-D-28000A Amendment 1	2. DOCUMENT DATE (YYMMDD) 921214
3. DOCUMENT TITLE Digital Representation for Communication of Product Data: IGES Application Subsets and IGES Application Protocols		
4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME <i>(Last, First, Middle Initial)</i>	b. ORGANIZATION	
c. ADDRESS <i>(Include Zip Code)</i>	d. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (2) AUTOVON	7. DATE SUBMITTED (YYMMDD)
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a. NAME Mr William C. Gorham, Jr.	b. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (703) 756-8465 (2) AUTOVON 289-8465	
c. ADDRESS <i>(Include Zip Code)</i> OSD (P&L) CALS/TSD 5203 LEESBURG PIKE SUITE 1609 FALLS CHURCH VA 22041	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 DSN 289-2340	

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