Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation Internationale de Normalisation Международная организация по стандартизации

**Doc Type: Working Group Document** 

Title: Proposal to encode Latin letters for the Slovene Metelko alphabet in the UCS

**Author: Karl Pentzlin** 

**Status: Individual Contribution** 

Action: For consideration by JTC1/SC2/WG2 and UTC

Date: 2011-05-01

#### 1. Introduction

The Metelko alphabet (Slovene: metelčica) was developed by Franc Serafin Metelko in 1825 and presented in [1]. It was designed to overcome the shortcomings of the then used Slovene orthography (bohoričica) by trying to establish an one-to-one relation for phonemes and letters.

The alphabet was used by some authors in printed works until 1833.

Some of the letters introduced in the basic Latin alphabet are modeled after the Cyrillic letters  $\mbox{Ш/ш}$ ,  $\mbox{Щ/щ}$ ,  $\mbox{3/3}$ ,  $\mbox{Ж/ж}$ , and  $\mbox{Ч/ч}$ . However, these letters are modified to comply with the overall design of Latin letters. All these small letters have descenders while none of the Cyrillic originals have them. Moreover, the designs of  $\mbox{Ш/ш}$ ,  $\mbox{Щ/ш}$ , and  $\mbox{Ж/ж}$  were considerably reworked by used curved forms where the Cyrillic originals only have straight constituents.

## 2. Encoding Considerations

The name and code position of U+A794/A795 LATIN CAPITAL/SMALL LETTER LUNATE EPSILON are coordinated with two other proposals currently being worked on: A proposal for characters used in German dialectology by Michael Everson et al., and an upcoming revision of L2/11-040 "Revised Proposal to encode characters for the English Phonotypic Alphabet".

The code position of the other letters is coordinated with the mentioned upcoming revision of L2/11-040, using the code space in the used blocks directly following the code points used there.

The Metelko alphabet uses a letter pair to denote the schwa sound which resembles a reversed S/s. Due to the principle of encoding Latin letters by shape than by meaning, this letter is unified with the existing U+01A7/U+01A8 LATIN CAPITAL/SMALL LETTER TONE TWO, in spite of the fundamentally different meaning.

Regarding U+A7DA/A7DB LATIN CAPITAL/SMALL LETTER ZE and U+A7DE/A7DF LATIN CAPITAL/SMALL LETTER CHE, the capital letters resemble the Cyrillic form, while the small letters are modified by having a descender. Even if it is advocated that in pure historic alphabets the use of Cyrillic letters is appropriate to denote Latin letters of an identical form, a cross-script special casing is considered problematic. To avoid this, the capital forms are proposed as Latin letters also, yielding unproblematic case pairs.

Regarding U+A7DF LATIN SMALL LETTER CHE, this letter is superficially similar to U+0265 LATIN SMALL LETTER TURNED H. However, in quality serifed fonts, the bottom termination is different. While the turned h has a peak there (like the normal h as its top termination; see the representative glyph of U+0265 in the Unicode 6.0 charts), the small Latin CHE has a full serif

at its bottom termination, like a q (and a Cyrillic CHE). Therefore, the small Latin CHE is not unified with the turned h.

The situation is different for U+FB0F LATIN CAPITAL LETTER SLOVENE METELKO TSE. Its lowercase form incidentally is identical to U+019E LATIN SMALL LETTER WITH LONG RIGHT LEG, thus the lowercase forms have to be unified due to the principle of encoding Latin letters by shape than by meaning.

This leaves the U+FB0F LATIN CAPITAL LETTER SLOVENE METELKO TSE as a capital Latin letter with no formal lowercase counterpart.

Therefore it is put into the "Alphabetic presentation Forms" block, due to the principles laid out in L2/11-040 = WG2 N3981 "Revised Proposal to encode characters for the English Phonotypic Alphabet".

## 3. Proposed Characters

Annotations in parentheses address special issues for a character, or reference to figures where such special issues are discussed. (These annotations are not intended to be retained in the character list when copied into the standard.)

### Block: Latin Extended-D

# Additions for historical and phonetic use

C U+A794 LATIN CAPITAL LETTER LUNATE EPSILON

→ 0404 cyrillic capital letter ukrainian ie

→ 2108 scruple

→ A792 latin capital letter c with bar

the serif on the middle bar is sometimes retained or modified in sans-serif fonts

· denotes the sound [t[] in the English Phonotypic Alphabet

· denotes the sound [e] in the Slovene Metelko alphabet

€ U+A795 LATIN SMALL LETTER LUNATE EPSILON

→ 03F5 greek lunate epsilon symbol

· used in German dialectology

### Additions for the Slovene Metelko alphabet

М	U+A7CE	LATIN CAPITAL LETTER H WITH NOTCH
h	U+A7CF	LATIN SMALL LETTER H WITH NOTCH
L	U+A7D0	LATIN CAPITAL LETTER L WITH PIGTAIL AT BOTTOM · resembles the digraph "Lj" in modern Slovene orthography
1	U+A7D1	LATIN SMALL LETTER L WITH PIGTAIL AT BOTTOM  → 027A latin small letter turned r with long leg
Ŋ	U+A7D2	LATIN CAPITAL LETTER N WITH INWARDS HOOK  resembles the digraph "Nj" in modern Slovene orthography
Ŋ	U+A7D3	LATIN SMALL LETTER N WITH INWARDS HOOK

· also used in modern Lithuanian dialectology

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		(NOTE: This letter is identical with U+AB83 as proposed in L2/11-135 "Proposal to add characters used in Lithuanian dialectology to the UCS".)
<b>0</b>	U+A7D4	LATIN CAPITAL LETTER VERTICALLY BARRED O
0	U+A7D5	LATIN SMALL LETTER VERTICALLY BARRED O
Ш	U+A7D6	LATIN CAPITAL LETTER ROUND SHA  → 0428 cyrillic capital letter sha  → 05E9 hebrew letter shin  → 0633 arabic letter seen
W	U+A7D7	LATIN SMALL LETTER ROUND SHA
Щ	U+A7D8	LATIN CAPITAL LETTER ROUND SHCHA  → 042A cyrillic capital letter shcha
Щ	U+A7D9	LATIN SMALL LETTER ROUND SHCHA
3	U+A7DA	LATIN CAPITAL LETTER ZE  → 021C latin capital letter yogh  → 0417 cyrillic capital letter ze
3	U+A7DB	LATIN SMALL LETTER ZE  → 0292 latin small letter ezh
$\mathfrak{X}$	U+A7DC	LATIN CAPITAL LETTER ROUND ZHE  → 0416 cyrillic capital letter zhe
€	U+A7DD	LATIN SMALL LETTER ROUND ZHE
Ч	U+A7DE	LATIN CAPITAL LETTER CHE  → 0427 cyrillic capital letter che  → A792 latin capital letter turned h
Ч	U+A7DF	LATIN SMALL LETTER CHE  → 0265 latin small letter turned h

# **Block: Alphabetic Presentation Forms Addition for the Slovene Metelko alphabet**

 $\eta_{\ \ \text{U+FB0F}\ \text{LATIN CAPITAL LETTER SLOVENE METELKO TSE}}$ 

- · lowercase is 019E latin small letter n with long right leg
- → 0220 latin capital letter n with long right leg

# 3.1 Annotations to be added for already encoded characters

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S LATIN SMALL LETTER TONE TWO U+01A8 after: Zhuang (old orthography) ADD: · used as schwa in the Slovene Metelko alphabet n U+0220 LATIN SMALL LETTER N WITH RIGHT LONG LEG after: Lakota ADD: · used as small tse in the Slovene Metelko alphabet ADD: → FB0F latin capital letter slovene metelko tse

## 3.2 Properties:

```
A794; LATIN CAPITAL LETTER LUNATE EPSILON; Lu; 0; L;;;;; N;;;; A795;
A795; LATIN SMALL LETTER LUNATE EPSILON; L1;0;L;;;;N;;;A794;;A794
A7CE; LATIN CAPITAL LETTER H WITH NOTCH; Lu; 0; L;;;;; N;;;; A7CF;
A7CF; LATIN SMALL LETTER H WITH NOTCH; L1; 0; L; ;; ;; N; ;; A7CE; ; A7CE
A7D0; LATIN CAPITAL LETTER L WITH PIGTAIL AT BOTTOM; Lu; 0; L;;;;; N;;;; A7D1;
A7D1; LATIN SMALL LETTER L WITH PIGTAIL AT BOTTOM; L1;0;L;;;;;N;;;A7D0;;A7D0
A7D2; LATIN CAPITAL LETTER N WITH INWARDS HOOK; Lu; 0; L;;;;; N;;;; A7D3;
A7D3; LATIN SMALL LETTER N WITH INWARDS HOOK; L1; 0; L;;;;; N;;; A7D2;; A7D2
A7D4; LATIN CAPITAL LETTER VERTICALLY BARRED O; Lu; 0; L;;;;; N;;;; A7D5;
A7D5; LATIN SMALL LETTER VERTICALLY BARRED O; L1; 0; L;;;;; N;;; A7D4;; A7D4
A7D6; LATIN CAPITAL LETTER ROUND SHA; Lu; 0; L;;;;; N;;;; A7D7;
A7D7; LATIN SMALL LETTER ROUND SHA; L1; 0; L; ;; ;; N; ;; A7D6; ; A7D6
A7D8; LATIN CAPITAL LETTER ROUND SHCHA; Lu; 0; L;;;;; N;;;; A7D9;
A7D9; LATIN SMALL LETTER ROUND SHCHA; L1; 0; L;;;;; N;;; A7D8;; A7D8
A7DA; LATIN CAPITAL LETTER ZE; Lu; 0; L;;;;; N;;;; A7DB;
A7DB; LATIN SMALL LETTER ZE; L1; 0; L;;;;; N;;; A7DA;; A7DA
A7DC; LATIN CAPITAL LETTER ROUND ZHE; Lu; 0; L;;;;; N;;;; A7DD;
A7DD; LATIN SMALL LETTER ROUND ZHE; L1; 0; L; ;; ;; N; ;; A7DC; ; A7DC
A7DE; LATIN CAPITAL LETTER CHE; Lu; 0; L;;;;; N;;;; A7DF;
A7DF; LATIN SMALL LETTER CHE; L1; 0; L;;;;; N;;; A7ED;; A7DE
FBOF; LATIN CAPITAL LETTER SLOVENE METELKO TSE; Lu; 0; L; ;; ;; ;; ;; ;;
```

#### 4. References

[1] Metelko, Franz Seraph: Lehrgebäude der slowenischen Sprache im Königreiche Illyrien und in den benachbarten Provinzen. Laibach (now Ljubljana) 1825.

# 5. Examples and Figures

Fig. 1: From [1], unnumbered page before page 1.

Showing the Metelko alphabet (the title translates "Slovene script for printing and handwriting").

Krainifche Druck-u Current-Schrift				
A	a	A a	N n	$\mathcal{H}$ n
В	b	B6	N n	n n
D	d	D d	0 0	00
E	e	C e	Φ Φ	. O a
E	C	E e	Рр	Pp
F	·f	FF	Rr	Rr
G	g	$\mathcal{G}_{g}$	S s	Sfs
Н	h	$\mathcal{H}h$	W w	WWw
Н	h	$\mathcal{H}h$	Ч ч	Uf y
I	i	Ti	3 3	3 3
S	. s	2 г	€ ж	X x
J	j	71	T t	Ct.
K	k	H.h	$\mathbf{U}$ $\mathbf{u}$	U u
L	1	Ll	V $v$	v
L	1	I st	ηη	n
M	m	M m	Чч	Y y
			40	5. Sungler & Laiback

Fig. 2: ibid., p. 1:

1

Showing the Metelko alphabet in relation to contemporary Latin alphabets (referred as "Neu-Krain.", i.e. "new Slovene").

# Einleitung.

# Rrainische und aus andern Alphabeten gleichbedeutende Schriftzeichen:

Reu-Rrain. 2011-Rrain. Rroatische, Deutsche, Frangof. Italienische.

	A a	<b>a</b> ;		a		a ·
	ВЬ	b	Ь	<b>b</b>	b	b
	Dd	<b>d</b>	ď,	· 8	d	d .
	E e	e	e	å .	e	e aperto
	C &	é	124	ě	é	e chiuso(?)
	F f	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	f (1)	f	f	f
	G g	g.		à	g: gant	g: gara
-	H h	B` h	B h	Б	_ h	-
	Hh.	h	h	ď		
		i	i	i	i	i
	I i 2 a J j	ì, ù, e	<del>- (?)</del>	t	e: que	
,	Ji	i	i	•	i: mien	i '
	K k	ĺk ´	k	ř	c: car	ch
	Ll	1 1	1	I	1	1
	LI	Ij	ly ·		il: ail	gl: gli
	M m	m	m	m	m '	m
	Nn	n	n	n	n	n
	Nn	nj	ny .	-	gn	gn
	Oo	o i	o	٥.	ō	o chiuso
	<b>O o</b>	ò	-		oi (?)	o aperto (?)
	Pp.	P	<b>p</b> , .	Þ	<b>p</b> `	P .
	Rr	r	r	Ì	r	r
,	Ss	. <b>f</b>	<b>5</b> Z	B	s: son	s: sono
	W w	ſh	ss, sh	(d)	che	sce
	W W	fhzh	sch	(d)t(d)	promptes.	•
	3 3 36 32		2	f: lefen	<b>Z</b> .	S: rosa
	<b>3€ 3</b> €	sh	8	-	j '	
	T t U u	t	t 30	t.	t	t
	Uu	u	u	u	ou	u
	V v	V	`♥	110	<b>V</b> ( )	<b>v</b> .
	ηη	Z	C2	8	-	z : 2i0
	Ч ц	zh	ch	t(d)	padent	c : ciò
,	7				:	1

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# E3OPOVE BASN 2.

# . 26 aba ine vol.

Haba je videla vola na travneke, ine zelí nemu enaka bite. Bayne tedej svojo gérbasto kózo napiheváte, ter vpráwa svoje tovarwíne: Ale nésem takó velíka kakor vol? Nése ne, ji pravijo. Le we bol se napéna, ter vprawa: Sem 3dé vender velekemu volu enáka? Spet ji odgovore, de ne. Pa ne neha; 3e vso moujó se bol ine bol napéna, ine raspoye.

Nápeh ve nesreuo perpraye. Kdor sam sebe pràv pozná, se néma ujemú napiheváte.

# 2. Gàd ine pila.

Gàd pride ponous ve kovármeno, ins houe vse oródje razgriste. Narprej se sprave nad nákov (náklo). Ko pa neu ne oprave, ga zapustí, ins gre nad pilo: tukej, méne, bo lóme kej opravil. Pa tude lete se zastón perzadéva. Pila se mu posmehúje rekóu: Bedák, kakó houew mene se svojime zobmí razgríste, ker jáz melézo premágam, in nákov, kteremu ti neu ne morew, lahko ve prah zdrobím?

Kdor ve svojo mou gaupa, drugeh pa ne pogná, se opétje.

# 3. Volk ine jagne.

Volk gre ke studénnu pit, ina 3agleda jagne, ktero veliko: nixe od nega pije. Naglo se volk 3adere nad nim rekóu: 3akaj me vodó kaliw? Kakó xe to, lube volk, odgovorí ubogo jagne, jà3 pijem spode, ti pa 3gore; sej ne teue voda ve brég! Volk se ra3serdí, ter prave: 3dé je ravno pol léta, kar se me ti opravlálo. Kakó? odgovorí jagne, takrat me we né belo na svéte. Je bil pa tvoj oue, ale tvoja mate, 3avpije volk, ine ra3terga nedolæno jagne.

Mounéjimu vséle obvelá, ne prepiraj se ze nim.

**Fig. 4:** Cesar in Opat: Valentin Stanič's adaptation of the poem "Der Kaiser und der Abt" by Gottfried August Bürger (1828; Zgodovina slovenskega slovstva II, Lino Legiša).

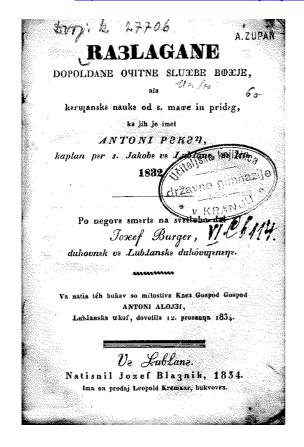
Pravline povédal hom nove postave:
Enkrat je bil nesar prebrisane glave;
Opàt je tud' bil, moz nægouen takrår,
Al ukoda, evuar je bel gvit bil k' opat.

Best' nesar prestal je vreqine in mraga,
Spal malo, pa bil skog' vesel'ga obraga;
Je vede in ueren kreh komaj imel,
We veukrat je zeje in lakot terpel.

Opatu je mogla bit' druga postréga,
Begato napiten na mehko se vlega,
Na tolstem obrage se lina bleuje;
Obsegle trébuha mu néso trije.

1) To belada, ksiere je Bürgar is stare parpovésta;
"King John and the Abbot of Canterbury" vael. je
ze tede V. 80.º %. prestevanil ino va léte 1828 va
Tereta na svatlobe dal.

**Fig.** 5: Title page and a sample page of a book using the Metelko alphabet (retrieved 2011-02-06 from http://www.arts.ualberta.ca/~ljubljan/metelcica.html)



118 kritoseryno spovedniku ne razoděnem, in nad sebój se pokorile ne wtrafujem do smerte."

Naslagane svete mawe , kakor se dan danawane bere.

3dé zaunemo premiwleváte sveto mawo, kakor se dan danawne bere. Vse, kar kole se
per svete mawe storí in zgodí, vse kej poméne; nobèn tude nar manue opravek per svete
mawe né brez duhovnega svetega poména. Torej vam ménem, preluhe moji! ke pohoznoste
veliko perpomoue, que vam daritev svete mawe
nekoleko razlozim. De hote molitve in neremónije svete mawe loxej umévale, in ve spomine ohranovale, razdelím sveto mawo ve west
délov, ktereh vsak kej posebnega ve sebe za-

popade. \*)
Perve del svete mawe nam bo perpravlane ke svete mawe, to je, molitve od 3auetka svete mawe do perstópa.

Druge dél nam bodo molitve in beríla od perstopa do darována.

<sup>\*)</sup> Sveta mawa ima le wtirs poglavitne déle, kakor bo posnéje requeno. Jas jo le sató vz west délov razdelim, de bomo loxej nene molitre in perembie premiwleváls, razumévals, in vs spomius obdarxeváls.

#### ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.1

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <a href="http://www.dkuuq.dk/JTC1/SC2/WG2/docs/principles.html">http://www.dkuuq.dk/JTC1/SC2/WG2/docs/principles.html</a> for guidelines and details before filling this form.

Please ensure you are using the latest Form <a href="http://www.dkuuq.dk/JTC1/SC2/WG2/docs/summaryform.html">http://www.dkuuq.dk/JTC1/SC2/WG2/docs/summaryform.html</a>.

See also <a href="http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html">http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html</a> for latest Roadmaps.

#### A. Administrative

1. Title: Proposal to encode Latin letters for the Slovene Metelko alph	abet in the UCS			
2. Requester's name: Karl Pentzlin				
Requester type (Member body/Liaison/Individual contribution):     Individual Co				
4. Submission date: 2011-05	5-01			
5. Requester's reference (if applicable):				
6. Choose one of the following:	Voc			
This is a complete proposal:	Yes			
(or) More information will be provided later:  B. Technical – General				
Choose one of the following:     a. This proposal is for a new script (set of characters):	No			
Proposed name of script:	140			
b. The proposal is for addition of character(s) to an existing block:	Yes			
Name of the existing block:  Latin Extended D; Alphabetic Present				
Number of characters in proposal:	20			
Proposed category (select one from below - see section 2.2 of P&P document):	20			
A-Contemporary B.1-Specialized (small collection) X B.2-Specialized (large	collection)			
C-Major extinct D-Attested extinct E-Minor extinct				
F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable us	sage symbols			
4. Is a repertoire including character names provided?	Yes			
a. If YES, are the names in accordance with the "character naming guidelines"				
in Annex L of P&P document?	Yes			
b. Are the character shapes attached in a legible form suitable for review?	Yes			
5. Fonts related:	***************************************			
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for p	ublishing the			
standard?	_			
Peter Weiss (Inštitut za slovenski jezik Frana Ramovša ZRC SAZU, Dialektološka s				
b. Identify the party granting a license for use of the font by the editors (include address,	e-mail, ftp-site, etc.):			
6. References:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?				
b. Are published examples of use (such as samples from newspapers, magazines, or oth of proposed characters attached?  Yes	ner sources)			
7. Special encoding issues:  Does the proposal address other aspects of character data processing (if applicable) suc	oh aa innut			
presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose inform	mation)?			
presentation, sorting, scaroning, indexing, transitionation etc. (if yes please enclose infor	mation):			
8. Additional Information:				
	haracter(e) or Script			
Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script.				
Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour				
information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default				
Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization				
related information. See the Unicode standard at <a href="http://www.unicode.org">http://www.unicode.org</a> for such information on other scripts. Also				
see <u>http://www.unicode.org/Public/UNIDATA/UCD.html</u> and associated Unicode Technical Re	eports for information			
needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Sta	indard.			

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 $<sup>\</sup>substack{1.5 \text{ Form number: N3702-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11)}$ 

# C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	No			
If YES explain				
2. Has contact been made to members of the user community (for example: National Body,				
user groups of the script or characters, other experts, etc.)?	Yes			
If YES, with whom? Peter Weiss, Ljubljana, Slovenia				
If YES, available relevant documents:				
3. Information on the user community for the proposed characters (for example:				
size, demographics, information technology use, or publishing use) is included?	Yes			
Reference: see text				
4. The context of use for the proposed characters (type of use; common or rare)	Specialized			
Reference: see text				
5. Are the proposed characters in current use by the user community?	See text			
If YES, where? Reference:				
6. After giving due considerations to the principles in the P&P document must the proposed characteristics of the proposed cha				
in the BMP?	Yes			
If YES, is a rationale provided?	Yes			
If YES, reference: To keep them in line with similar character				
7. Should the proposed characters be kept together in a contiguous range (rather than being scatte	red)?			
8. Can any of the proposed characters be considered a presentation form of an existing				
character or character sequence?	No			
If YES, is a rationale for its inclusion provided?				
If YES, reference:				
9. Can any of the proposed characters be encoded using a composed character sequence of either				
existing characters or other proposed characters?	No			
If YES, is a rationale for its inclusion provided?				
If YES, reference:				
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)	V			
to an existing character?	Yes			
If YES, is a rationale for its inclusion provided?	Yes			
If YES, reference: See text				
11. Does the proposal include use of combining characters and/or use of composite sequences?	No			
If YES, is a rationale for such use provided?				
If YES, reference:				
Is a list of composite sequences and their corresponding glyph images (graphic symbols) pro-	vided?			
If YES, reference:				
12. Does the proposal contain characters with any special properties such as	Mo			
control function or similar semantics?	No			
If YES, describe in detail (include attachment if necessary)				
42. Done the prepared entering any left compatibility of any of the 100 and 10				
13. Does the proposal contain any Ideographic compatibility character(s)?	No			
If YES, is the equivalent corresponding unified ideographic character(s) identified?				
If YES, reference:				