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

Doc Type:Working Group DocumentTitle:Proposal to encode Latin Letter Reversed Half HSource:Andrew West and Michael EversonStatus:Individual ContributionAction:For consideration by JTC1/SC2/WG2 and UTCDate:2019-03-25

## 1. Introduction

This is a proposal to encode a Latin epigraphic letter used in Roman inscriptions from the Roman provinces of Gaul, particularly the areas around the cities of Lyon (Lugdunum) and Nîmes (Nemausus) in modern France. The proposed character is a form of the capital letter H with no vertical stem on the left side ( $H_1$ ), which is known in French epigraphic works as *H dimidiée* ("halved H"). The glyph is a mirror image of U+2C75/U+2C76 LATIN LETTER HALF H (F F), and so we refer to it as REVERSED HALF H.

Although the inscriptions themselves show only a capital letter, it is not unreasonable that specialists may wish to cite words in title-case or lower-case forms, and since HALF H and REVERSED HALF H have parallel glyph forms, it is sensible to encode a casing pair for REVERSED HALF H.

Other letters used for Latin epigraphy (A7F7 and A7FB..A7FF) have been encoded as caseless (gc = Lo), but the relationship between  $H_{I}$  and  $F_{F}$  is quite different from that of letters like H and H. The letters H and H are used as standalone abbreviations for whole words (F = *filius* "son"; H = filia "daughter"; P = *puer* "boy"; H = puella "girl"), so it makes no sense to lower case these two letters. In contrast, H is used as a letter within words, so it is reasonable to expect that a name such as PHILOPATER in all capitals would title case to P4ilopater in headings or discussion.

We therefore propose to encode the Reversed Half H as a casing pair of characters in the Latin Extended-D block at U+A7F5 and U+A7F6, with the names LATIN CAPITAL LETTER REVERSED HALF H and LATIN SMALL LETTER REVERSED HALF H.

## 2. Unicode Properties

Block: Latin Extended-D

Script: Latin

## UCD properties:

A7F5;LATIN CAPITAL LETTER REVERSED HALF H;Lu;0;L;;;;N;;;;A7F6; A7F6;LATIN SMALL LETTER REVERSED HALF H;Ll;0;L;;;;N;;; A7F5;;A7F5

## Code chart annotations for A7F5:

= H dimidiée

x latin capital letter half h - 2C75

Code Point	Glyph	Character Name
A7F5	Ч	LATIN CAPITAL LETTER REVERSED HALF H
A7F6	Ч	LATIN SMALL LETTER REVERSED HALF H

#### 3. Discussion

The purpose of the Reversed Half H character appears to be to indicate aspirate *h* or rough breathing. It is found in word-initial position, and following *c*, *p*, and *t*, in words which have an original Greek  $\chi$ ,  $\varphi$ , and  $\theta$ . Because of this it is reasonable to assume that this letter has the same kind of origin (whether directly or in parallel invention) as do the original *spiritus asper* ( $\vdash$ ) and *spiritus lenis* ( $\dashv$ ) characters devised by the Alexandrian grammarian Aristophanes in c. 200 BC. See the discussions of the origin of the Greek breathings by Carl Faulmann and Edward Maude Thompson in Fig. 1 and Fig. 2.

#### Fig. 1: Carl Faulmann, Das Buch der Schrift enthaltened die Schriftzeichen und Alphabete aller Zeiten und aller Volker des Erdkreises (1880) p. 179

Der Spiritus lenis ist ein leichter Hauch am Anfange der Wörter vor Vokalen, der Spiritus asper der starke Hauch (h), er steht auch bei r ( $\phi$ ), Doppel-r hat beide Zeichen  $\dot{\rho}\dot{\rho}$ . Die Spirituszeichen wurden vom alexandrinischen Grammatiker ARISTOPHANES (200 v. Ch.) aus dem **H** gebildet, indem er | für den Spiritus asper und | für den Spiritus lenis nahm, daraus wurde  $\square$  und endlich  $\bigcirc$  . Ein anderer Hauch, welcher sich besonders im äolischen Dialekte lange erhielt, war der f-Laut, dessen Zeichen F wegen seiner Ähnlichkeit mit  $\Gamma$  Digamma, d. h. Doppelgamma, genannt wurde, er ging später in v,  $\beta$  und  $\varphi$  über, sein Zeichen erhielt sich als Zahlwert für 6 mit dem ursprünglichen Namen Bau. Une die nichtige Detenung der Wärten

#### Fig. 2: E. M. Thompson, An introduction to Greek and Latin palaeography (1912) p. 61

#### Breathings and Accents and other Signs.-Greek

Breathings and accents, like the Greek system of punctuation by points noticed above, are also attributed to Aristophanes of Byzantium, as part of the  $\delta \epsilon \kappa a \pi \rho \sigma \varphi \delta (a)$ , of which he is called the inventor.

The rough (•) and the smooth (•) breathings  $(\pi r\epsilon i \mu a \tau a)$  at first represented the left and the right half of the letter H, which itself was originally the aspirate. They were soon worn down to  $\iota$  and J, in which shapes they are found in early MSS.; and eventually these square forms became the rounded ' and ', the period at which they definitely arrived at this last stage being the twelfth century. Only occasionally are marks of breathing found in the more ancient MSS., and then it is generally the rough breathing that is distinguished. The Reversed Half H is commonly found in Roman inscriptions from the Roman provinces of Gaul, particularly the areas of Lyon and Nîmes in modern France, but was not normally used in inscriptions from other parts of the Roman empire.

Cagnat's *Cours d'épigraphie latine* (1898) lists the various forms of the letter H found in Roman inscriptions, of which the Reversed Half H is the only form of the letter which is commonly distinguished from the ordinary H in diplomatic transcriptions.

# Fig. 3: Cagnat, Cours d'épigraphie latine (1898) p. 21

ΗDans la belle écriture monumentale, le H est assez large<br/>et la barre du milieu se trouve exactement à mi-hauteur.<br/>Mais cette particularité ne saurait être regardée comme un<br/>indice certain, car on trouve, à la même époque, à côté du<br/>H large et divisé en deux parties égales par la ligne hori-<br/>zontale, le H allongé et inégalement partagé par cette ligne';<br/>H. H, se lisent au 1°r siècle sur les bronzes ; aux 11°, 11°,<br/>steicles sur les pierres.Mappartient à la fin du 1V° siècle et est propre aux<br/>textes chrétiens.H. h, sont des formes corrompues qui mènent à l'H on-<br/>cial.A se rencontre surtout à Nîmes, mais ce n'est pas tout à<br/>fait sans exemple dans le reste de la Gaule.

A few authors have considered the Reversed Half H to be a ligature of H with the preceding letter, but the standard catalogues of Roman epigraphic inscriptions (*Corpus Inscriptionum Latinarum* vols. XII [1888] and XIII [1899]; *Inscriptions antiques du musée de la ville de Lyon* 5 vols. [1888–1893]; *Inscriptions antiques de Nîmes* [1893]) all treat the Reversed Half H as a distinct letter. See Fig. 5 and Fig. 7, where the Reversed Half H is described as *H dimidiée* ("halved H"), in contrast to ligatured letters which are specified as *liés en monogramme*.

There are some inscriptions where H does physically ligate with a preceding letter, and in doing so loses its left stem, and these examples should be represented at the character level as ligatures, e.g. <P zwj H> for the PH ligature (PI), and <N zwj T zwj H> for the NTH ligature (NH) in the Epitaph of Crispia Aphrodisia given in *Inscriptions antiques de Nîmes* (1893) p. 664. However, in all cases where the epigraphic catalogues show an isolated Reversed Half H letterform, the Reversed Half H is not conjoined with the preceding letter in the actual inscription, and there is clear space between the two letters, so they cannot be considered to be ligatures. See Figs. 2–3 and Figs. 4–5 for comparisons of two actual inscriptions and their diplomatic transcriptions.

Fig. 4: Funerary inscription for M. Curvelius at the Musée Gallo-Romain in Lyon

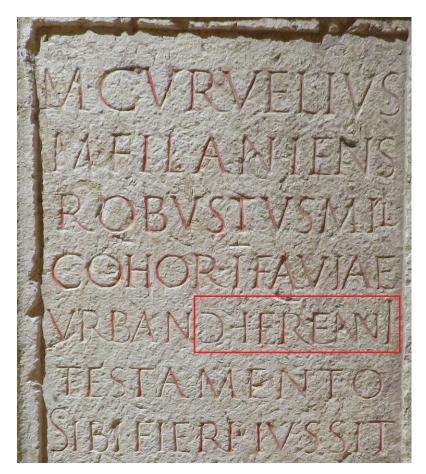
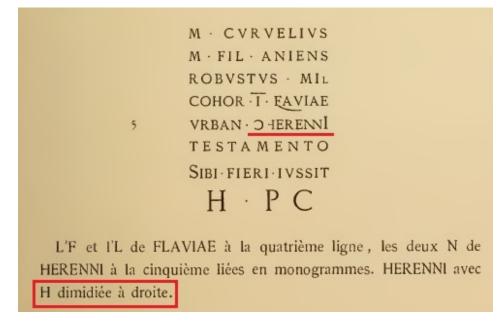


Fig. 5: Inscriptions antiques du musée de la ville de Lyon vol. 1 (1888) p. 447



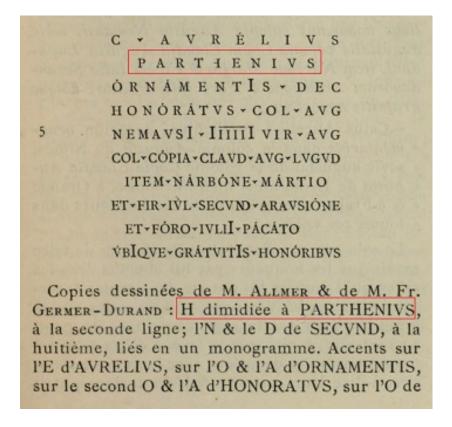
**)** HERENNI = centuria Herennii

## Fig. 6: Funerary inscription for C. Aurelius Parthenius at the Musée Archéologique de Nîmes



Wikimedia Commons: Scriptura\_con\_apices\_Nimes\_1750.jpg 
① ① QuartierLatin1968

Fig. 7: Inscriptions antiques de Nîmes (1893) p. 277

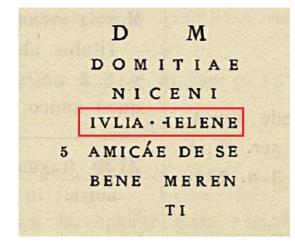


The Reversed Half H commonly occurs after the letters C, P or T, in the middle of a word, but it may also occur as the first letter of a word, and in such cases the diplomatic transcriptions separate the Reversed Half H from the preceding word by a word space or by a word separator point (see Fig. 8 "OB +IONOREM" and Fig. 9 "IVLIA + HELENE").

EX. EX. LIGVRIV F1L. Sexters. MARINVS VMM RATOR C. R. Cinium Roman. PROVINC. LVG. Q.IMRALIB. Prouincia Lug. ORNAMENTIS SVFRAG. dunenf. SANCT. ORDINIS HONO-Suffragiu. RATVS II VIR DESIGNATVS EX POSTVL. POPVLI OB JONO Poftula. to. REM PERPETVI PONTIF. DAT DONI DEDICATIONE CVIVS CVRIONIBVS. -X. V. ORDINI EQVES-Sextum. viris TRI IIII VIRIS AVG. NEGOTIATO-Anguri. RIB. VINARIS -X.III. ET OMNIB. CORPORIB.LVG.LICITE COEVNTIB.X LOCHE Datus ITEM LVDOS CIRCENSES DEDIT. LDDD Decreto Decurio-73 14 577.

Fig. 8: Recherche des antiquités et curiosités de la ville de Lyon (1673) p. 25

Fig. 9: Corpus Inscriptionum Latinarum (1899) Vol. XIII p. 334

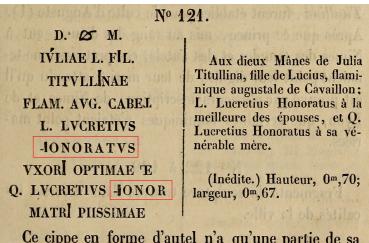


There is one example where the Reversed Half H occurs at the start of a word at the start of a line, where it is impossible to be considered a ligature, i.e. the epitaph for the *flaminique* Julia Titullina where the word "**HONORATVS**" occupies a complete line (see Fig. 10 for the original inscription, and Fig. 11, Fig. 12 and Fig. 13 for diplomatic transcriptions).



## Fig. 10: Epitaph for the *flaminique* Julia Titullina

http://www.maisoncarree.eu/monument/archeologie/culte-imperial/epitaphe-dune-flaminique-dimperatrice/



# Fig. 11: Catalogue du Musée de Nîmes (1853) p. 121

Ce cippe en forme d'autel n'a qu'une partie de sa base de restaurée; la frise de feuillage qui entoure l'inscription est d'un bon goût et bien exécutée; une certaine élégance dans les proportions et les caractères, 3242 cippus frondibus ornatus litteris bonis saeculi secundi incipientis paulatim decrescentibus. Nemausi tr. dans les fondations de la maison d'arrêt, iam in museo PEL., ubi extat.

D & M
IVLIAE·L·FIL
TITVLLINAE
FLAM · AVG · CABEL
L·LVCRETIVS
HONORATVS
VXORI OPTIMAE · E
Q.LVCRETIVS.IONOR
MATRI · PHISSIMAE

5

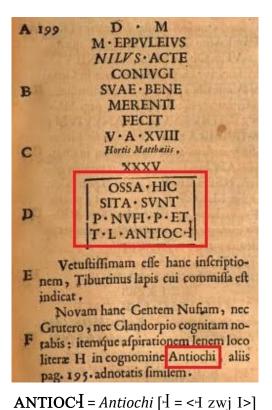
Descripsi. Exhibent Perrot hist. de Nîmes ed. 1840 p. 146 n. 62 (ab hoc Herzog n. 156); Pelet catalogue n. 220. 4 ex. est Cabell(ione).

Lucretios patrem et filium infra n. 3247 redire Peletus monet.

#### Fig. 13: Inscriptions antiques de Nîmes (1893) p. 745

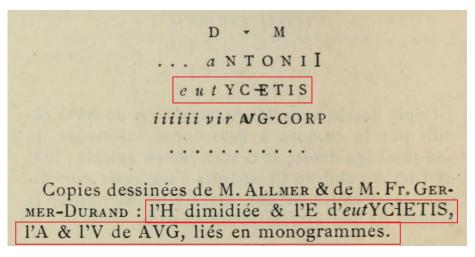
	A REAL PROPERTY AND A REAL
	380
É	pitaphe de Julia Titullina.
ronnement; « maison d'a renfermée accompagné	c sa base, mais dépourvu de son cou- « trouvé dans les fondations de la arrêt » (E. GDUR.). L'inscription est dans un encadrement de moulures é d'un rinceau. — Hauteur, 1 <sup>m</sup> 05; 67; hauteur de la partie encadrée, ur, 0 <sup>m</sup> 44.
5	D Ø M IVLIAE - L - FIL TITVLLINAE FLAM - AVG - CABEL L - L V C R E TIVS H O N O R A TVS VXORI - OPTIMAE - E Q-LVCRETIVS - HONOR MATRI - PIISSIMAE
GERMER-DUR septième lig sur l'V de	ssinées de M. ALLMER & de M. Fr. AND : l'E & le T de ET à la fin de la gne liés en monogramme; un accent IVLIAE; l'H de HONORATVS & de nidiée à droite.

The Reversed Half H letter may form a ligature with the following letter, which should be represented at the encoding level as a ZWJ ligature. See Fig. 14, Fig. 15 and Fig. 16 for examples of Reversed Half H ligatured to the right with I ( $\frac{1}{2}$ ), E ( $\pm$ ) and R ( $\Re$ ) respectively.



## Fig. 14: Inscriptionum Antiquarum Explicatio (1699) p. 381

Fig. 15: Inscriptions antiques de Nîmes (1893) p. 410



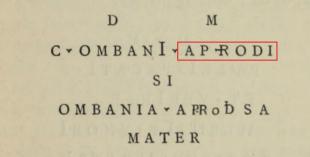
 $[EVT]YC \oplus TIS = Eutychetis [\oplus = < H zwj E>]$ 

Cf. *Inscriptions antiques de Nîmes* (1893) p. 411 where the same name is written "**EVTYCHES**" with a standard HE ligature

# 594

# Épitaphe d'Ombanius Aphrodisius.

Stèle à fronton triangulaire « à la maison de « M. Fontanes, un quartier de Corcomayre ». (GUIR.); employée comme marche d'escalier dans la maison Joffard, rue du Bat-d'Argent & cachée en partie. L'inscription est renfermée dans un encadrement de moulures. — Hauteur, o<sup>m</sup>85; largeur, o<sup>m</sup> 30; hauteur de la partie encadrée, o<sup>m</sup>28.



 $\mathbf{AP} + \mathbf{RODI} | \mathbf{SI} = A phrodisi [ + \mathbf{R} = < + zwj \mathbf{R} > ]$ 

## Fig. 17: Inscriptions antiques de Nîmes (1893) p. 886

Remarquer la formule *hic sepultus est*, fréquente sur les plus anciennes inscriptions de Narbonne & le mot *hic* écrit sans *h*. M. Fr. Germer-Durand croit toutefois apercevoir sur la pierre une légère trace qu'il suppose pouvoir être la partie supérieure de la haste droite d'une H dimidiée, ainsi : -I.

## Fig. 18: *Inscriptions chrétiennes de la Gaule antérieures au VIII<sup>e</sup> siècle* (1856) vol. 1 p. 100

HAEC OMNIA SVB ASCIA DEDI-CAVIT.

## 4. Appendix: Index of Reversed Half H Occurrences

Table 1 lists all the examples of Reversed Half H letters in inscriptions catalogued in *Inscriptions antiques du musée de la ville de Lyon* (1888–1893) and *Inscriptions antiques de Nîmes* (1893).

Transcription	Cased transcription	Reading	Source
CIO·LICTORI	cio lictori	cho lictori	<i>Lyon</i> v. 1 p. 200
J HERENNI	ə 4erennl	centuria Herennii	<i>Lyon</i> v. 1 p. 447
ANTIOCIVS	Antiocivs	Antiochus	<i>Lyon</i> v. 2 p. 345
OB HONOREM	ob 10norem	ob honorem	<i>Lyon</i> v. 2 p. 362
RHODANIC	Riodanic	Rhodanic	<i>Lyon</i> v. 2 p. 424
OMNIB-IONORIB	omnib 10norib	omnib honorib	<i>Lyon</i> v. 2 p. 426
EVSTOCIVS	Evstocivs	Eustochus	<i>Lyon</i> v. 2 p. 440
IO·APER[VS]	io apter[vs]	ho apterus	<i>Lyon</i> v. 2 p. 459
PHLEGN	Pilegon	Phlegon	<i>Lyon</i> v. 3 p. 15
ANCHARI	Ancıari	Anchari	<i>Lyon</i> v. 3 p. 163
L·ANHICO	L. Antiioco	L. Anthioco	<i>Lyon</i> v. 3 p. 241
IVLIA·HELENE	Ivlia Ielene	Julia Helene	<i>Lyon</i> v. 3 p. 250
+IIDI • VXORI	ıidl vxorl	hidii uxori	<i>Lyon</i> v. 3 p. 427
ATROPHILI	Atropili	Atrophili	<i>Lyon</i> v. 3 p. 467
PHILOCALVS	Pillocalvs	Philocalus	<i>Lyon</i> v. 3 p. 472
PARTIENIVS	Partienivs	Parthenius	<i>Nîmes</i> p. 277
EPITYNCIANVS	Epityncianvs	Epitynchanus	<i>Nîmes</i> p. 282
MARIA·CIRESIME	Maria Cıresime	Maria Chresime	<i>Nîmes</i> p. 297
T·KARI·SO'ERICHI	T. Kari Soteric <sub>i</sub> i	T. Kari Soterichi	<i>Nîmes</i> p. 392
[EVT]YCÆTIS	[Evt]ycietis	Eutychetis	<i>Nîmes</i> p. 410
PHARNACES	Piarnaces	Pharnaces	<i>Nîmes</i> p. 601

Table 1: Index of Half H letters in the Lyon and Nîmes corpora

Transcription	Cased transcription	Reading	Source
P-ILETE	Pıilete	Philete	<i>Nîmes</i> p. 646
CINTIAE·IONORAT	Cintiae Ionorat	Cintiae Honorat	<i>Nîmes</i> p. 649
PHILOPATER	Pıilopater	Philopater	<i>Nîmes</i> p. 676
EVTYC <del>E</del> S TYC <del>E</del>	Evtycies Тусіе	Eutyches Tyche	<i>Nîmes</i> p. 682
Р-Н.Е.Е	Pıilete	Philete	<i>Nîmes</i> p. 704
AGATHANGEL	Atatıangel	Agathangel	<i>Nîmes</i> p. 710
HONORATVS HONOR	Honoratvs Honor	Honoratus Honor	<i>Nîmes</i> p. 745
SOTERICHI	Sotericii	Soterichi	<i>Nîmes</i> p. 752
BATHYLLIDI	BatıyllidI	Bathyllidii	<i>Nîmes</i> p. 754
SEXTILIA · ATT+IS	Sextilia Attıis	Sextilia Atthis	<i>Nîmes</i> p. 795
<b>FAB·EV</b> IODVS	Fab Eviodus	Fab Euhodus	<i>Nîmes</i> p. 946
PHILENIDIS	Pıilenidis	Philenidis	<i>Nîmes</i> p. 1001
NYMPÆ	Nympie	Nymphe	<i>Nîmes</i> p. 1004
TROPHIMVS	Tropiimvs	Trophimus	<i>Nîmes</i> p. 1012
AP-RODISI	Apırodisi	Aphrodisi	<i>Nîmes</i> p. 1015

## 5. Bibliography

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## 6. Proposal Summary Form

SO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646 <sup>1</sup> . Please fill all the sections A, B and C below. Please read Principles and Procedures Document (P & P) from _http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html _ for guidelines and details before filling this form. Please ensure you are using the latest Form from _http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html See also _http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html _ for latest <i>Roadmaps</i> .		
A. Administrative		
1. Title:       Proposal to encode Latin Letter Reversed Half H         2. Requester's name:       Andrew West and Michael Everson         3. Requester type (Member body/Liaison/Individual contribution):       Individual contribution         4. Submission date:       2019-03-25         5. Requester's reference (if applicable):       6. Choose one of the following:         This is a complete proposal:       YES         (or) More information will be provided later:       YES		
B. Technical – General		
1. Choose one of the following:       a. This proposal is for a new script (set of characters):       NO         Proposed name of script:       NO         b. The proposal is for addition of character(s) to an existing block:       YES         Name of the existing block:       LATIN EXTENDED-D         2. Number of characters in proposal:       2         3. Proposed category (select one from below - see section 2.2 of P&P document):       A-Contemporary         A-Contemporary       B.1-Specialized (small collection)         C-Major extinct       D-Attested extinct         F-Archaic Hieroglyphic or Ideographic       G-Obscure or questionable usage symbols         4. Is a repertoire including character names provided?       YES         a. If YES, are the names in accordance with the "character naming guidelines"       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 publishing the standard?         Andrew West       b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):		
<ul> <li>6. References: <ul> <li>a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?</li> <li>YES</li> <li>b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?</li> <li>YES</li> </ul> </li> <li>7. Special encoding issues: <ul> <li>Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?</li> <li>YES</li> </ul> </li> </ul>		
8. Additional Information: 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 behaviou information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Defau 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. Als see Unicode Character Database ( <a href="http://www.unicode.org/reports/tr44/">http://www.unicode.org</a> for such information in the Unicode Standard for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard	r ult so ts	

<sup>&</sup>lt;sup>1</sup> Form number: N4102-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, 2011-03, 2012-01)

#### 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.)?	NO
If YES, with whom?	
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?	NO
4. The context of use for the proposed characters (type of use; common or rare) Rare	Э
Reference:	
5. Are the proposed characters in current use by the user community?	YES
If YES, where? Reference:	
6. After giving due considerations to the principles in the P&P document must the proposed characters be	entirely
in the BMP?	YES
If YES, is a rationale provided?	YES
If YES, reference: Latin script is all in the BMP	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	N/A
8. Can any of the proposed characters be considered a presentation form of an existing	
character or character sequence?	YES
If YES, is a rationale for its inclusion provided?	YES
If VES_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)	
to, or could be confused with, an existing character?	NO
If YES, is a rationale for its inclusion provided?	
If VES reference:	
· · · · · · · · · · · · · · · · · · ·	NO
If VES, is a rationale for such use provided?	
If YES, is a rationale for such use provided?	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?	·····
If YES, reference:	
12. Does the proposal contain characters with any special properties such as	
control function or similar semantics?	NO
If YES, describe in detail (include attachment if necessary)	
12. Dece the proposal contain any Ideographic compatibility characters?	NO
	NO
If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	