JTC1/SC2/WG2 N5039 2019-03-25

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 Letter Reversed Half H

Source: Andrew West and Michael Everson

**Status:** Individual Contribution

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

Date: 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 1), 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 and H is quite different from that of letters like H and H. The letters H and H are used as standalone abbreviations for whole words (H = H

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

| <b>Code Point</b> | Glyph | Character Name                       |
|-------------------|-------|--------------------------------------|
| A7F5              | Н     | LATIN CAPITAL LETTER REVERSED HALF H |
| A7F6              | Н     | 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 F für den Spiritus asper und I für den Spiritus lenis nahm, daraus wurde und endlich (). 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  $\upsilon$ ,  $\beta$  und  $\varphi$  über, sein Zeichen erhielt sich als Zahlwert für 6 mit dem ursprünglichen Namen Bau. Has die michties Determine des Wester

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  $\delta \dot{\epsilon} \kappa a \pi \rho o \sigma \phi \delta \dot{\iota} a \iota$ , 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  $\iota$ , 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

H

Dans la belle écriture monumentale, le H est assez large et la barre du milieu se trouve exactement à mi-hauteur. Mais cette particularité ne saurait être regardée comme un indice certain, car on trouve, à la même époque, à côté du H large et divisé en deux parties égales par la ligne horizontale, le H allongé et inégalement partagé par cette ligne<sup>1</sup>;

H. H, se lisent au 1<sup>er</sup> siècle sur les bronzes; aux 11<sup>e</sup>, 111<sup>e</sup>, 111<sup>e</sup>, 111<sup>e</sup> siècles sur les pierres.

H appartient à la fin du IVe siècle et est propre aux textes chrétiens.

H. h., sont des formes corrompues qui mènent à l'H on-

cial.

I se rencontre surtout à Nîmes, mais ce n'est pas tout à 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 (PH), 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.



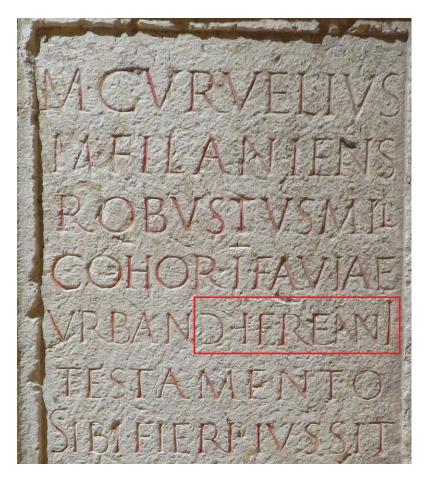
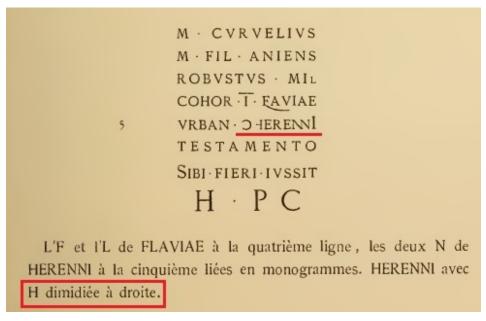


Fig. 5: Inscriptions antiques du musée de la ville de Lyon vol. 1 (1888) p. 447



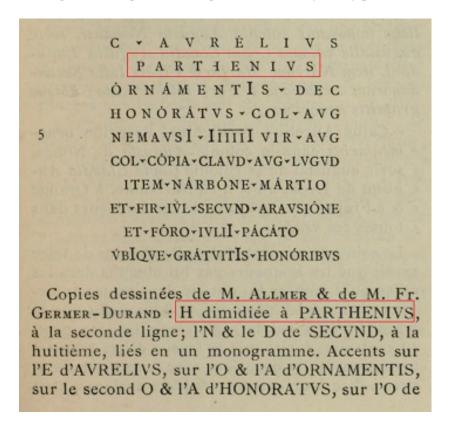
**J HERENI** = centuria Herennii

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



Wikimedia Commons: Scriptura\_con\_apices\_Nimes\_1750.jpg ⊚ ● ● 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 HONOREM" and Fig. 9 "IVLIA · HELENE").



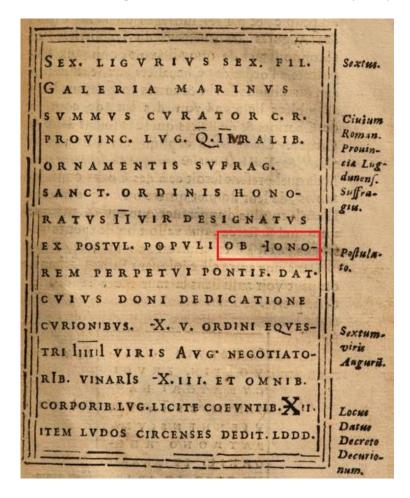
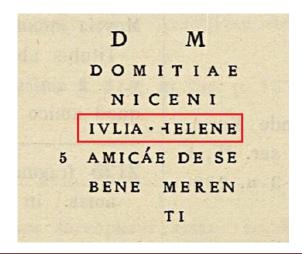


Fig. 9: Corpus Inscriptionum Latinarum (1899) Vol. XIII p. 334



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/

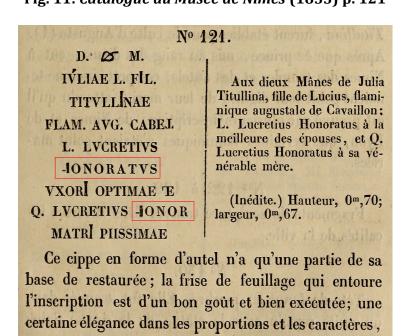


Fig. 11: Catalogue du Musée de Nîmes (1853) p. 121

Fig. 12: Corpus Inscriptionum Latinarum (1888) Vol. XII p. 419

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. IVLIAE · L · FIL TITVLLINAE Descripsi. Exhibent Perrot hist. de Nîmes ed. FLAM · AVG · CABEL 1840 p. 146 n. 62 (ab hoc Herzog n. 156); Pelet 5 L.LVCRETIVS catalogue n. 220. HONORATVS 4 ex. est Cabell(ione). VXORI OPTIMAE · E Lucretios patrem et filium infra n. 3247 redire Q.LVCRETIVS-IONOR Peletus monet. MATRI · PIISSIMAE

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

380 Épitaphe de Julia Titullina.

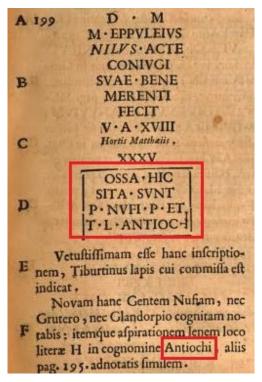
Cippe avec sa base, mais dépourvu de son couronnement; « trouvé dans les fondations de la « maison d'arrêt » (E. G.-Dur.). L'inscription est renfermée dans un encadrement de moulures accompagné d'un rinceau. — Hauteur, 1<sup>m</sup>05; largeur, 0<sup>m</sup>67; hauteur de la partie encadrée, 0<sup>m</sup>45; largeur, 0<sup>m</sup>44.

D & M
I V L I A E \* L \* F I L
T I T V L L I N A E
F L A M \* A V G \* C A B E L
L \* L V C R E T I V S
H O N O R A T V S
V X O R I \* O P T I M A E \* E
Q \* L V C R E T I V S \* H O N O R
M A T R I \* P I I S S I M A E

Copies dessinées de M. Allmer & de M. Fr. Germer-Durand: l'E & le T de ET à la fin de la septième ligne liés en monogramme; un accent sur l'V de IVLIAE; l'H de HONORATVS & de HONOR dimidiée à droite.

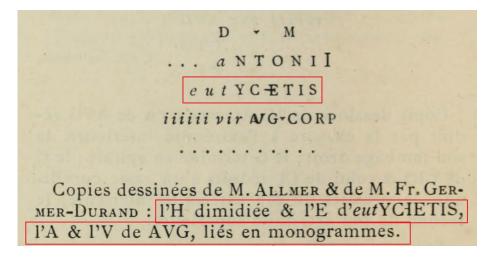
The Reversed Half H letter may form a ligature with the following letter, which should be represented at the encoding level as a ZWJ ligature. See Fig. 14, Fig. 15 and Fig. 16 for examples of Reversed Half H ligatured to the right with I (-I), E (-E) and R (-R) respectively.

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



ANTIOCH = Antiochi [H = <H zwi I>]

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



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

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

Fig. 16: Inscriptions antiques de Nîmes (1893) p. 1015

## 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.

D M
C - O M B A N I - A P - R O D I
S I
O M B A N I A - A PR o D S A
M A T E R

AP + RODI | SI = Aphrodisi [+R = <+I zwj 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).

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

| Transcription     | Cased transcription            | Reading           | Source                  |
|-------------------|--------------------------------|-------------------|-------------------------|
| CiO·LICTORI       | c10 lictori                    | cho lictori       | <i>Lyon</i> v. 1 p. 200 |
| O HEREMI          | ว HerennI                      | centuria Herennii | <i>Lyon</i> v. 1 p. 447 |
| ANTIOC+VS         | Antiocivs                      | Antiochus         | Lyon v. 2 p. 345        |
| OB HONOREM        | ob 10norem                     | ob honorem        | Lyon v. 2 p. 362        |
| RHODANIC          | Riodanic                       | Rhodanic          | Lyon v. 2 p. 424        |
| OMNIBIONORIB      | omnib 10norib                  | omnib honorib     | Lyon v. 2 p. 426        |
| EVSTOCIVS         | Evstoctvs                      | Eustochus         | Lyon v. 2 p. 440        |
| ·IO·APER[VS]      | 10 apter[vs]                   | ho apterus        | Lyon v. 2 p. 459        |
| P+LE@N            | Pılegon                        | Phlegon           | <i>Lyon</i> v. 3 p. 15  |
| ANCHARI           | Ancıari                        | Anchari           | Lyon v. 3 p. 163        |
| L·ANHOCO          | L. Antiioco                    | L. Anthioco       | Lyon v. 3 p. 241        |
| IVLIA · HELENE    | Ivlia Helene                   | Julia Helene      | Lyon v. 3 p. 250        |
| ·IIDI·VXORI       | ıidI vxorI                     | hidii uxori       | Lyon v. 3 p. 427        |
| ATROPHILI         | Atropıili                      | Atrophili         | Lyon v. 3 p. 467        |
| PHILOCALVS        | Р₁ilocalvs                     | Philocalus        | Lyon v. 3 p. 472        |
| PARTIENIVS        | Partienivs                     | Parthenius        | Nîmes p. 277            |
| EPITYNCIANVS      | Epityncıanvs                   | Epitynchanus      | Nîmes p. 282            |
| MARIA · C·IRESIME | Maria Cıresime                 | Maria Chresime    | Nîmes p. 297            |
| T·KARI·SO'ERICHI  | T. Kari Soteric <sub>1</sub> i | T. Kari Soterichi | Nîmes p. 392            |
| [EVT]YCETIS       | [Evt]ycıetis                   | Eutychetis        | Nîmes p. 410            |
| PHARNACES         | Рıarnaces                      | Pharnaces         | Nîmes p. 601            |

| Transcription      | Cased transcription | Reading            | Source               |
|--------------------|---------------------|--------------------|----------------------|
| P-ILETE            | Рıilete             | Philete            | <i>Nîmes</i> p. 646  |
| CINTIAE · HONORAT  | Cintiae Honorat     | Cintiae Honorat    | <i>Nîmes</i> p. 649  |
| PHILOPATER         | Р₁ilopater          | Philopater         | <i>Nîmes</i> p. 676  |
| EVTYC±S<br>TYC±    | Evtycies<br>Tycie   | Eutyches<br>Tyche  | Nîmes p. 682         |
| PHLEE              | Prilete             | Philete            | Nîmes p. 704         |
| AGATIANGEL         | Atatıangel          | Agathangel         | Nîmes p. 710         |
| HONORATVS HONOR    | Honoratvs<br>Honor  | Honoratus<br>Honor | Nîmes p. 745         |
| SOTERIC-II         | Sotericıi           | Soterichi          | Nîmes p. 752         |
| BAT-IYLLIDI        | BatıyllidI          | Bathyllidii        | Nîmes p. 754         |
| SEXTILIA · ATT·IIS | Sextilia Attıis     | Sextilia Atthis    | <i>Nîmes</i> p. 795  |
| FAB·EV·IODVS       | Fab Eviodus         | Fab Euhodus        | <i>Nîmes</i> p. 946  |
| PHILENIDIS         | Pıilenidis          | Philenidis         | <i>Nîmes</i> p. 1001 |
| NYMPÆ              | Nymp₁e              | Nymphe             | <i>Nîmes</i> p. 1004 |
| TROPHIMVS          | Trop₁imvs           | Trophimus          | <i>Nîmes</i> p. 1012 |
| AP-RODISI          | Арırodisi           | 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 10646.1

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

Please read Principles and Procedures Document (P & P) from <a href="http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html">http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html</a> 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 Roadmaps.

# 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):

| 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:  |                       |
| 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:   |                       |
| 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 B.1-Specialized (small collection) B.2-Specialized (large collection) C-Major extinct D-Attested extinct E-Minor extinct G-Obscure or questionable usage  4. Is a repertoire including character names provided? |                       |
| a. If YES, are the names in accordance with the "character naming guidelines"<br>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: <ul> <li>a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publis standard?</li> </ul>  | shing the             |
| Andrew West  | -::                   |
| b. Identify the party granting a license for use of the font by the editors (include address, e-ma   | ail, ftp-site, etc.): |
| Andrew West  | <del>-</del>          |
| 6. References: <ul> <li>a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?</li> <li>b. Are published examples of use (such as samples from newspapers, magazines, or other soft proposed characters attached?</li> </ul> YES  | YES<br>ources)        |
| 7. Special encoding issues:  |                       |
| Does the proposal address other aspects of character data processing (if applicable) such as   |                       |
| presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information  | on)? YES              |

#### 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 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 Unicode Character Database (<a href="http://www.unicode.org/reports/tr44/">http://www.unicode.org/reports/tr44/</a>) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

JTC1/SC2/WG2 N5039

<sup>.</sup>¹ 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

| 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               |
| Reference:  |                  |
| 4. The context of use for the proposed characters (type of use; common or rare)                             | Rare             |
| 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 characteristics. | ers 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 scatte          | red)? <i>N/A</i> |
| 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 VEC references   |                  |
| 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)            | NO               |
| to, or could be confused with, an existing character?   | 770              |
| If YES, is a rationale for its inclusion provided?  |                  |
| If YES, reference:  |                  |
| 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                                |                  |
| control function or similar semantics?  | NO               |
| If YES, describe in detail (include attachment if necessary)  |                  |
|   |                  |
|   |                  |
| 13. Does the proposal contain any Ideographic compatibility characters?                                     | NO               |
| If YES, are the equivalent corresponding unified ideographic characters identified?                         |                  |
| If VEC reference.   |                  |
| II 1E5, reference.  |                  |