# Universal Multiple-Octet Coded Character Set <br> International Organization for Standardization <br> Organisation internationale de normalisation <br> Международная организация по стандартизации 

| Doc Type: | Working Group Document |
| :--- | :--- |
| Title: | Preliminary Proposal to add the Ahom Script in the SMP of the UCS |
| Source: | Martin Hosken, Stephen Morey |
| Action: | For consideration by JTC1/SC2/WG2 |
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1. Introduction: The Ahom script is used in North East India for the Tai Ahom language [AHO] and there are also some bilingual manuscripts from the 18th century that are partially in Assamese [ASM]. The Ahom Kingdom was set up (traditional date 1228) by a prince of Mau Long (now in the Dehong Dai prefecture of Yunnan province China). There are stone inscriptions in Yunnan very similar to Tai Ahom, and it is possible that the Ahoms brought their script from Mau Long when they arrived in Assam. The oldest surviving Ahom text, however, is the 'Snake Pillar' now in the State Museum of Assam, Guwahati, inscribed for King Siuw Hum Miung (1497-1539). In addition to this stone inscription and a few others, there are coins, brass plates and a large corpus of manuscripts. Until the early 19th century, manuscripts were written either on cloth, or more usually on the bark of the Sasi tree (Aquillaria Agallocha). Many thousands of such bark manuscripts have survived, often multiple copies of the same texts. Very few have been translated because knowledge of the language by the Ahom community is partial at best.

The Tai Ahom language went into decline from the late 17th century, and by 1800 was probably not spoken at all as mother tongue in Assam. However, the traditional priests, custodians of the manuscripts, kept up some religious practice throughout the 19th century and a revival of Ahom culture and language has been under way since at least 1920 (see Terwiel 1996 for a critique of this revival, also Morey 2002). Even before this, the revival of Ahom may be said to have begun in the late 18th century, with the compilation of two bilingual texts, the Bar Amra, an Ahom to Assamese lexicon, and the Loti Amra (see Barua and Phukon 1964, Tabassum and Morey 2010).

The modern period of use of the Ahom script commences with the publication of the Ahom-AssameseEnglish Dictionary (G. Barua 1920). Many dictionaries, word lists and primers have followed, first printed with a font style that was significantly different from the 18th century manuscripts. Since the 1997 development of an Ahom computer font (by Stephen Morey) the publication of Ahom texts has proceeded much more rapidly and there are now large numbers of books in Assam printed with at least some Ahom content.
2. Structure: Ahom is of the Brahmic type with an inherent vowel, medial consonants clustered with the initial consonant and a visible virama killer character, which has only become obligatory in modern Ahom. Ahom has no independent vowels, instead they are represented by AHOM LETTER A (U+112D2) followed by the corresponding dependent vowel sign. Dependent vowel signs are stored following the initial consonant cluster.
There are various irregular vowel sequences used in archaic Ahom, for example $\int_{0}^{q}$ AHOM LETTER NA ( $\mathrm{U}+112 \mathrm{C} 3$ ) AHOM VOWEL SIGN O (U+112E8) AHOM VOWEL SIGN AW (U+112E5) AHOM LETTER BA (U+112D0) AHOM SIGN VIRAMA (U+112EB) AHOM VOWEL SIGN U (U+112EA) `star`.

[^0]Ahom uses the repeating of the final vowel, vowel sequence or consonant plus virama, as a way of indicating that the word should be reduplicated. Vowels that may be so repeated are: AHOM VOWEL SIGN AA (U+112E1), AHOM VOWEL SIGN II (U+112E2), AHOM VOWEL SIGN AW (U+112E5), AHOM VOWE L SIGN AI (U+112E6), AHOM VOWEL SIGN AM (U+112E7), AHOM SIGN VIRAMA (U+112EB), and t he sequence AHOM LETTER BA (U+112D0) AHOM SIGN VIRAMA (U+112EB).
3. Digits: Knowledge of Ahom digits is incomplete with Ahom specific shapes only being known for 1,78 and 10. Some other digit shapes are borrowed and then localised, from Burmese: 6 and 9 and the remaining digits: 2, 34 and 20 are merely the words for those numbers in Ahom spelled out. Lack of knowledge of digits is exacerbated by the common mixing of digits between systems (particularly with Burmese digits) in a number. A specific digit block has been included because some modern manuscripts do use specifically Ahom numbers. Full details of what should be used specifically for 2, 3 and 4 are an open issue.

In manuscript usage of Ahom, the digit 20 does get used as a digit. Numbers above 100 are typically fully spelled out as words since they occur within text. In manuscript usage numbers above 10 tend only to be used for page numbers, and no 100 page books have been found yet. The following is an example of a page number:
$v(A H O M$ DIGIT $2 \mathrm{U}+112 \mathrm{~F} 2)$ (AHOM DIGIT $20 \mathrm{U}+112 \mathrm{FB}$ ) 101 (AHOM DIGIT 10 $\mathrm{U}+112 \mathrm{FA}$ ) (AHOM DIGIT $8 \mathrm{U}+112 \mathrm{~F} 8$ ) meaning '58'.
4. Punctuation: There are three punctuation marks. The two dandas are local to this script and not shared from any other script block. The AHOM SIGN RULAI is used as a paragraph mark.
5. Word spacing: Modern Ahom and some manuscripts have word spaces. Other manuscripts have no word spaces.
6. Variant Forms: Ahom has a number of variant and ligature glyphs that are worthy of attention.

This is a contextual ligature of AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN U (U+112EA). It is only used if there is no ambiguity that closing the right hand side of the initial consonant will make it look like another consonant. For example, one would not render AHOM LETTER NGA (U+112C2) AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN U ( $\mathrm{U}+112 \mathrm{EA}$ ) using this ligature $(\mathcal{H})$ because it would look too much like AHOM LETTER MA ( $\mathrm{U}+112 \mathrm{C} 8$ ) AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN U (U+112EA) ( $\left.\mathrm{H}^{( }\right)$which can safely use this ligature.
These consonants may not take the ligature: $\mathfrak{\leftarrow}$ AHOM LETTER NGA (U+112C2) $\checkmark 6$ AHOM LETTER NA (U+112C3) 乌 AHOM LETTER DA (U+112C7) K AHOM LETTER NYA (U+112CE)

This is a ligature of AHOM VOWEL SIGN O (U+112E8) AHOM VOWEL SIGN A (U+112E1). It is believed to convey the glide-vowel combination/wa/, as ¥̌́ AHOM LETTER KA (U+112C0) AHOM VOWEL SIGN O (U+112E8) AHOM VOWEL SIGN AA (U+112E1) AHOM LETTER NGA (U+112C2) AHOM SIGN VIRAMA (U+112EB), pronounced /kwaang/.
3 This is a font variant of AHOM LETTER JHA (U+112D5) in the form found in older manuscripts. The main form AHOM LETTER JHA (U+112D5) was that adopted for use at the beginning of the Ahom revival in the 1920s.

In manuscript Ahom there are a number of variations, not found in modern Ahom, that are being analysed. The following is a discussion of such variations. Some of that discussion is based around the use of a variation selector VARIATION SELECTOR-1 U+FE00. This selector may occur following only an AHOM LETTER or AHOM VOWEL SIGN. The variation selector has been preferred over separate encoding to facilitate analysis in order ascertain which should be encoded as separate characters and which are merely glyph variants. No such variation occurs in modern Ahom.

This is a ligature of AHOM LETTER KHA ( $\mathrm{U}+112 \mathrm{C} 1$ ) + AHOM MEDIAL RA ( $\mathrm{U}+112 \mathrm{DF}$ ). This requires further research as to whether a more conventional rendering of this sequence occurs.
This is a ligature of AHOM LETTER PHA (U+112C9) + AHOM MEDIAL RA (U+112DF). This requires further research as to whether a more conventional rendering of this sequence occurs.
$\infty$ This is a font variant of AHOM LETTER GA (U+112C0) but it may also occur along with AHOM LETTER GA ( $\mathrm{U}+112 \mathrm{C} 0$ ) in some rare manuscripts. A variation selector may be used where both need to be separated for analysis purposes, in which case the default form is used and this form is the variation form.

9 This is a font variant of AHOM LETTER GA (U+112C0) and does not occur in documents involving the other variant listed above.
au This ligature is actually two characters AHOM LETTER TA (U+112C5) AHOM LETTER JA ( $\mathrm{U}+112 \mathrm{CD}$ ) conjoined. But the TA has been shortened. This is an example of where a variation of TA is used. Thus this sequence would be stored AHOM LETTER TA (U+112C5) VARIATION SELECTOR-1 (U+FE00) AHOM LETTER JA (U+112CD).
The sequence AHOM VOWEL SIGN AW (U+112E5) AHOM VOWEL SIGN AM (U+112E7) often ligates such that the AHOM VOWEL SIGN AM (U+112E7) renders before the AHOM VOWEL SIGN AW (U+112E5). This may also occur rarely with the sequences AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN AM (U+112E7). In addition the sequence AHOM SIGN VIRAMA (U+112EB) AHOM VOWEL SIGN AW (U+112E5) often ligates.
7. Character Naming: Character names follow the phonetics of the characters. AHOM LETTER JA ( $\mathrm{U}+112 \mathrm{C} 9$ ) acts like a YA but is pronounced in modern Ahom as JA. Likewise AHOM LETTER BA (U+112D0) acts like a WA but is pronounced in modern Ahom as BA.
8. Sort order: A standard sort order for Ahom has not been agreed. There are various in existence. Sorting Ahom gives higher priority to the final consonant than to the vowel. In fact, early sorting gave higher priority to the final consonant than to the initial consonant! But nobody is recommending this for a modern sorting. For DUCET the ordering is not expected to give precedence to the final consonant, although it would be expected for language specific tailoring(s).

Initial Consonant: Two orders exist. The most common ordering and the most likely to be used in modern primers, given in Barua (1920), is:

and the most authoritative, given in Bar Amra as analysed by Stephen Morey, is:


```
k kh ng n ch t p d m ph th s r j ny l b h (a)
```

Final Consonants: Again there are two established orders for these and they differ from the orders for initial consonants. So in addition to these two orders, there is the option of unifying the final consonant order with one of the initial consonant orders. The most authoritative order, from Bar Amra, is:

$$
\begin{array}{llllllll}
-m & -\tau & -\varsigma & -v & -v & -v & -w n & -v \\
-k & -n g & -n & -p & -m & -n y & -t & -w(b)
\end{array}
$$

and the most common, from Barua and Phukan is:

| $-v$ | $-m$ | $-\tau$ | $-k$ | -n | $-v$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $-b(w)$ | $-k$ | $-n g$ | $-n$ | $-t$ | $-p$ |

Vowels: Vowels fall into two sequences: open and closed syllables. The open vowel sequence is (shown with an initial k):

| MK | M | 9 | $M$ | $\sqrt{4}$ | $\cdots$ | $\sqrt{17}$ | m | Mi |  | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ka | ka | ki | ku | ke | kai | ko | kav | kam |  | kom |

Then follows the closed syllables, here shown with initial and final k :

| MḾ | MiḾ | Mヘ́~ | Món | MPM |
| :--- | :--- | :--- | :--- | :--- |
| kak | kik | kuk | kok | kvk |

Finally there are two extra open syllables:

| rqo | M |
| :---: | :---: |
| kv | koi |

9. Issues: Here we list the issues that need to be resolved before this proposal may be considered final.
10. Unify $U+112 D E$ and $U+112 D F$ : Are these two characters really different? They don't seem to appear in the same document. Is one code sufficient. This requires further manuscript research.
11. Digits: What are the appropriate digits for Ahom. The current digits for 2, 3, 4 and 20 are confusable with the corresponding words (being identical with them).
12. Chart Font: The font used for the chart has a manuscript style to it and is preferred by some scholars. It is also a little more developed. Is this the best font?
13. Sort Order: What is the primary sort order, or at least the subsortings of consonants and vowels.
14. Variation Selectors: Variation selectors are a poor way of encoding. All variation selection sequences need to be analysed to see if there is some other way of modelling them.

|  | Ahom |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 112C | 112D | 112E | 112F |
| 0 | M | $\bigcirc$ | or | 0 |
| 1 | $\checkmark$ | $n$ | q | $\pi$ |
| 2 | $t$ | M | $\stackrel{\circ}{\circ}$ | $\checkmark$ |
| 3 | $\checkmark$ | $\bigcirc$ | a | $\stackrel{\square}{0}$ |
| 4 | 10 | 30 | $\sqrt{6}$ | $\mathrm{n}^{9}$ |
| 5 | 0 | w | $\delta$ | nl |
| 6 | v | \& | 2 | 5 |
| 7 | $\zeta$ | 40 | $\bigcirc$ | n |
| 8 | $\checkmark$ |  | 8 | $m$ |
| 9 | w |  | $\bigcirc$ | e |
| A | $\infty$ |  | a | 101 |
| B | $w$ |  | 6 | W |
| C | ¢ |  |  | 1 |
| D | w |  |  | 11 |
| E | K | 9 |  | 6 |
| F | w | $\bigcirc$ |  |  |

## Consonants

| 112 C 0 | M | AHOM LETTER KA |
| :---: | :---: | :---: |
| 112 C 1 | $\varepsilon$ | AHOM LETTER KHA |
| 112C2 | $\tau$ | AHOM LETTER NGA |
| 112 C 3 | $\checkmark$ | AHOM LETTER NA |
| 112 C 4 | w | AHOM LETTER CHA |
| 112 C 5 | 0 | AHOM LETTER TA |
| 112C6 | $v$ | AHOM LETTER PA |
| 112 C 7 | $\zeta$ | AHOM LETTER DA |
| 112 C 8 | $v$ | AHOM LETTER MA |
| 112C9 | w | AHOM LETTER PHA |
| 112 CA | $\infty$ | AHOM LETTER THA |
| 112CB | $w$ | AHOM LETTER SA |
| 112CC | 由 | AHOM LETTER RA |
| 112CD | $\omega$ | AHOM LETTER JA |
| 112CE | 上 | AHOM LETTER NYA |
| 112 CF | $w$ | AHOM LETTER LA |
| 112D0 | $\bigcirc$ | AHOM LETTER BA |
| 112D1 | $n$ | AHOM LETTER HA |
| 112D2 | H | AHOM LETTER A |
| 112D3 | $\bigcirc$ | AHOM LETTER GA |
| 112D4 | 30 | AHOM LETTER GHA |
| 112D5 | $w$ | AHOM LETTER JHA |
| 112D6 | $\infty$ | AHOM LETTER DHA |
| 112D7 | 4 | AHOM LETTER BHA |

## Medials

## Vowels

| 112E0 | \％ | AHOM VOWEL SIGN A |
| :---: | :---: | :---: |
| 112E1 | q | AHOM VOWEL SIGN AA |
| 112E2 | ¢ | AHOM VOWEL SIGN II |
| 112E3 | a | AHOM VOWEL SIGN UU |
| 112E4 | $\checkmark$ | AHOM VOWEL SIGN E |
| 112E5 | $\delta$ | AHOM VOWEL SIGN AW |
| 112E6 | ¢ | AHOM VOWEL SIGN AI |
| 112E7 | ¢ | AHOM VOWEL SIGN AM |
| 112E8 | 8 | AHOM VOWEL SIGN O |
| 112E9 | $\rho$ | AHOM VOWEL SIGN I |
| 112EA | q | AHOM VOWEL SIGN U |
| 112EB | ¢ | AHOM SIGN VIRAMA |
| Digits |  |  |

112F0 ○ AHOM DIGIT 0
112F1 ヶ AHOM DIGIT 1
112F2 b AHOM DIGIT 2
112 F 3 मे AHOM DIGIT 3
112F4 $\quad w^{9} \quad$ AHOM DIGIT 4
112F5 亿l AHOM DIGIT 5
112F6 © AHOM DIGIT 6
112F7 $\quad$ AHOM DIGIT 7
112 F 8 m AHOM DIGIT 8
112F9 e AHOM DIGIT 9
112FA 101 AHOM DIGIT 10
$112 \mathrm{FB} \quad w^{\checkmark}$ AHOM DIGIT 20

| 112 DE | AHOM CONSONANT SIGN MEDIAL LA |
| :--- | :--- | :--- |
| 112DF | AHOM CONSONANT SIGN MEDIAL RA | Punctuation

112FC 1 AHOM SIGN SMALL SECTION
112FD ॥ AHOM SIGN SECTION
112FE G AHOM SIGN RULAI

## Unicode Properties

112C0;AHOM LETTER KA;Lo;0;L; ; ; ; N; ; ; ;
112C1;AHOM LETTER KHA;Lo;0;L;;;;;N;;;;;
112C2;AHOM LETTER NGA;Lo;0;L; ; ; ; ; N; ; ; ;
112C3;AHOM LETTER NA;Lo;0;L;;;;;N;;;;
112C4;AHOM LETTER CHA;Lo;0;L;;;;;N;;;;
112C5;AHOM LETTER TA;Lo;0;L; ; ; ; N ; ; ; ; ;
112C6;AHOM LETTER PA;Lo;0;L; ; ; ; N; ; ; ;
112C7;AHOM LETTER DA;Lo;0;L;;;;;N;;;;
112C8;AHOM LETTER MA;Lo;0;L;;;;;N;;;;
112C9;AHOM LETTER PHA;Lo;0;L;;;;iN;;;;
112CA;AHOM LETTER THA;Lo;0;L; ; ; ; N; ; ; ; ;
112CB;AHOM LETTER SA;Lo;0;L; ; ; ; N; ; ; ;
112CC;AHOM LETTER RA;Lo;0;L; ; ; ; ; N; ; ; ;
112CD;AHOM LETTER YA;Lo;0;L;;;;;N;;;;
112CE;AHOM LETTER NYA;Lo;0;L;;;;iN; ; ; ;
112CF;AHOM LETTER LA;Lo;0;L;;;;;N;;;;
112D0;AHOM LETTER BA;Lo;0;L;;;;;N;;;;
112D1;AHOM LETTER HA;Lo;0;L;;;;;N;;;;
112D2;AHOM LETTER A;Lo;0;L;;;;iN;;;;
112D3;AHOM LETTER GA;Lo;0;L;;;;;N;;;;
112D4;AHOM LETTER GHA;Lo;0;L;;;;;N;;;;
112D5;AHOM LETTER JHA;Lo;0;L;;;;;N;;;;
112D6;AHOM LETTER DHA;Lo;0;L;;;; N; ; ; ;
112D7;AHOM LETTER BHA;Lo;0;L;;;; N; ; ; ;
112DE;AHOM CONSONANT SIGN MEDIAL LA;Mn;0;NSM;;;; $\mathrm{N} ; ; ; ;$
112DF;AHOM CONSONANT SIGN MEDIAL RA;Mn;0;NSM; ; ; ; N; ; ; ; ;
112E0;AHOM VOWEL SIGN A;Lo;0;L; ; ; ; N; ; ; ;
112E1;AHOM VOWEL SIGN AA;Lo;0;L; ; ; ; N; ; ; ;
112E2;AHOM VOWEL SIGN II;Mn;0;NSM; ;;; N; ; ; ;
112E3;AHOM VOWEL SIGN UU;Mn;0;NSM; ;;; N; ; ; ;
112E4;AHOM VOWEL SIGN E;Mc;0;L;;;;;N;;;;
112E5;AHOM VOWEL SIGN AW;Mn;0;NSM; ; ; ; N; ; ; ;
112E6;AHOM VOWEL SIGN AI;Mn;0;NSM; ; ; ; N; ; ; ; ;
112E7;AHOM VOWEL SIGN AM;Mn;0;NSM; ;;; N; ; ; ;
112E8;AHOM VOWEL SIGN 0;Mn;0;NSM; ; ; ; N; ; ; ;
112E9;AHOM VOWEL SIGN I;Mn;0;NSM; ; ; ; N; ; ; ;
112EA;AHOM VOWEL SIGN U;Mn;0;NSM; ; ; ; N; ; ; ;
112EB;AHOM SIGN VIRAMA;Mn;0;NSM; ; ; ; N; ; ; ;
112F0;AHOM DIGIT 0;Nd;0;L; ;0;0;0;N; ; ; ;
112F1;AHOM DIGIT 1;Nd;0;L; ;1;1;1;N;;;;
112F2;AHOM DIGIT 2;Nd;0;L; ;2;2;2;N; ; ; ;
112F3;AHOM DIGIT 3;Nd;0;L; 3;3;3;N; ; ; ;
112F4;AHOM DIGIT 4;Nd;0;L; $4 ; 4 ; 4 ; N ; ; ; ;$
112F5;AHOM DIGIT 5;Nd;0;L; 5;5;5;N; ; ; ;
112F6;AHOM DIGIT 6;Nd;0;L; ;6;6;6;N;;;;
112F7;AHOM DIGIT 7;Nd;0;L; 7;7;7;N; ; ; ;
112F8;AHOM DIGIT 8;Nd;0;L; ;8;8;8;N;;;;
112F9;AHOM DIGIT 9;Nd;0;L; $9 ; 9 ; 9 ; N ; ; ; ;$
112FA;AHOM DIGIT 10;Nd;0;L; 10;10;10;N; ; ; ;
112FB;AHOM DIGIT 20;Nd;0;L; ;20;20;20;N; ; ; ;
112FC;AHOM SIGN SMALL SECTION;Po;0;L; ; ; ; $N$; ; ; ; ;
112FD;AHOM SIGN SECTION;Po;0;L;;;;iN;;;;
112FE;AHOM SIGN RULAI;Po;0;L; ; ; ; N; ; ; ;

## Examples



Figure 1: Lik Tai Khwam Tai page 7
This modern text was printed before the advent of computer fonts.

1. Sample of AHOM CONSONANT SIGN MEDIAL LA (U+112DE).
2. AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN U (U+112EA) ligature.
3. Alternate, modern glyph, for AHOM VOWEL SIGN E (U+112E4).


Figure 2: NemiMang p2v

1. This shows an example of a typographical insertion. The BA is to be inserted after the TA it is written below. This relation does not need to be encoded in plain text.
2. An example of a variant form of PHA, attached to the KHA, which would be encoded using VARIATION SELECTOR-1. Notice here that it is the second consonant that is modified (the PHA).
3. Example of AHOM VOWEL SIGN AW (U+112E5) AHOM VOWEL SIGN AM (U+112E9) ligature
4. Example of AHOM CONSONANT SIGN MEDIAL RA (U+112DF)

5. '58' in Ahom and also in Burmese script
6. Example of reduplication through repeated AHOM SIGN VIRAMA (U+112EB)


Figure 3: NemiMang p66r showing text final embellishment, perhaps a character akin to TAI THAM SIGN KEOW (U+1AA3). Notice the highly embellished /vi/ AHOM LETTER A (U+112D2) AHOM VOWEL SIGN I (U+112E9) AHOM VOWEL SIGN U (U+112EA) AHOM LETTER NYA (U+112CE) AHOM SIGN VIRAMA (U+112EB).



Figure 5: Mohan 9 p2r showing AHOM LETTER TA (U+112C5) VARIATION SELECTOR-1 (U+FE00) AHOM LETTER JA (U+112CD) AHOM VOWEL SIGN AW (U+112E5)

## Bibliography

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# ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646 ${ }^{2}$ <br> Please fill all the sections $A, B$ and $C$ below. <br> 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. <br> 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



## B. Technical - General

1. Choose one of the following:
a. This proposal is for a new script (set of characters):

Proposed name of script: Ahom
b. The proposal is for addition of character(s) to an existing block:

Name of the existing block:
2. Number of characters in proposal:

3. Proposed category (select one from below - see section 2.2 of $\mathrm{P} \& \mathrm{P}$ document):

A-Contemporary
B.1-Specialized (small collection) D-Attested extinct
C-Major extinct
F-Archaic Hieroglyphic or Ideographic
4. Is a repertoire including character names provided?
a. If YES, are the names in accordance with the "character naming guidelines"
in Annex L of P\&P document?
b. Are the character shapes attached in a legible form suitable for review?
B.2-Specialized (large collection)
$\overline{\mathrm{X}}$ E-Minor extinct
$\overline{\mathrm{G}-\mathrm{Obsc}} \mathrm{Cure}$ or questionable usage symbols

5. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? Stephen Morey
If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:
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 other sources)
of proposed characters attached?
yes
7. Special encoding issues:

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)?
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)?

| yes |
| :---: |
| yes |
| yes |

$\qquad$
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 http://www.unicode.org for such information on other scripts. Also see http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

[^1]
## C. Technical - Justification




[^0]:    1 The 112EA in this spelling is what makes it irregular.

[^1]:    2 .-Form number: N3102-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)

