

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

**Doc Type:** Working Group Document  
**Title:** Preliminary proposal for Early Dynastic Cuneiform  
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This is a preliminary proposal for encoding Early Dynastic Cuneiform. It is a work in progress and additional characters are expected to be added. In the code charts a number of characters are given with a single wedge glyph; this is a place-holder glyph pending further font design.

**1. Introduction.** For an overview of cuneiform writing diachronically, see the previous Sumero-Akkadian Unicode proposal, N2786.

During the Early Dynastic (2900–2335 BCE) period of cuneiform writing, the writing system evidences a higher degree of rebus principles from its more pictographic nature in the archaic period. Presumably also during this time, the script orientation was shifted ninety degrees, mainly due to the types of tablets and scribal writing practices. Moreover, the repertoire of signs diminished from its greatest extent in the archaic period of some 1200 signs to perhaps 800 different signs. The writing of this period is attested primarily from two sites, Fāra and Tell Abū-Şalābīkh, both in the southern part of modern Iraq. The texts from this period include administrative, legal, lexical, and literary texts. The literary texts provide the first-known evidence of connected discourse in the region (archaic Sumerian being largely notational). However, understanding of the texts from this period remains obscure due largely to the non-linear ordering of signs (robbing the scholar of contextual clues), minimal morphological marking, and the lack of translation into a better-known language (such as in later periods of cuneiform). The lexical texts (comprising lists of both signs and words) are largely responsible for the proliferation of signs in this proposal. Many signs found in these lists do not appear in other contexts. The lists of signs, for example, exercise the writing of various complex signs; thus, these signs appear exclusively in that text.

**2. Character set.** The proposed glyphs have been compiled primarily from the modern Assyriological sign list of the Early Dynastic period, *Liste der archaischen Keilschriftzeichen aus Fara* (henceforth *LAK*), in conjunction with the Oracc Global Sign List ([www.oracc.org/ogsl](http://www.oracc.org/ogsl)). Every sign in *LAK* was carefully considered and collated by available photographs (provided by the Cuneiform Digital Library Initiative [www.cdli.ucla.edu](http://www.cdli.ucla.edu)) and hand copies. If the sign was determined to have been incorporated in the original Sumero-Akkadian Unicode proposal, N2786, it was not included in this proposal. Also not included are glyphs given in *LAK* which do not derive from the Early Dynastic period, but rather only from later periods such as Ur III or Old Babylonian. Moreover, numerals have been omitted due to the complexity of numeral signs from this period. An expert in the metrology of this period must be consulted before these can be properly included. Decisions regarding the understanding of the proposed glyphs have been made on an individual

basis, incorporating the most recent published discussions of signs from this period, including the major scholarly reappraisal (Manfred Krebernik, *Orbis Biblicus et Orientalis* vol. 160/1) and assertions made of individual glyphs within scholarly publications (e.g. Miguel Civil, *Archivi Reali di Ebla Studi* vol 4). Additionally, glyphs discovered in two publications since *LAK*, Robert D. Biggs *Oriental Institute Publications* vol. 99 and Miguel Civil *Cornell University Studies in Assyriology and Sumerology* vol. 12, have been incorporated.

The conventions in the earlier cuneiform proposal regarding mergers and splits (§3.3) are followed here. Where there is ambiguity or too much scholarly dissension regarding the relationship of two or more signs, both signs are included. This principle of maximal differentiation is notable for two sign groups, cuneiform sign LAK617, cuneiform sign GISHGAL, and complex signs which use these as their primary. It was determined that the sign LAK617 needed to be differentiated from EZEN (x120A1 and its derivatives). Similarly, the sign GISHGAL has been differentiated from URU (x12337 and its derivatives).

The order provided here is alphabetical, following the convention in the earlier cuneiform proposal (§3.9). Where the transliteration is unknown, the sign has been given a name based on its number in *LAK*, the convention followed in Assyriological works.

**3. Unicode Character Properties.** Character properties are proposed here.

TBD

#### **4. Bibliography.**

- CUSAS 12 — M. Civil 2010 *The Lexical Texts in the Schøyen Collection*. Cornell University Studies in Assyriology and Sumeriology 12. Bethesda, MD. CDL Press
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- HSS 3 — M. I. Hussey 1912 *Sumerian tablets in the Harvard Semitic Museum*. Parts I and II. Cambridge, MA. Harvard University Press
- ITT — F. Thureau-Dangin 1910-1912 *Inventaire des tablettes de Tello*
- LAK — A. Deimel 1922 *Liste der archaischen Keilschriftzeichen von Fara*. Wissenschaftliche Veröffentlichung der Deutschen Orient- Gesellschaft 40
- Nik — M. V. Nikol'skij 1908-1915 *Drevnosti Vostocnyja*. St. Petersburg.
- OIP 99 — R. D. Biggs 1974 *Inscriptions from Tell Abū Ṣalābīkh*. Oriental Institute Publications 99. Chicago. University of Chicago Press
- SF — A. Deimel 1923 *Schultexte aus Fara*. Wissenschaftliche Veröffentlichung der Deutschen Orient-Gesellschaft 43
- TSS — R. Jestin 1937 *Tablettes sumériennes de Shuruppak conservées au Musée de Stamboul*. Paris
- WF — A. Deimel 1924 *Wirtschaftstexte aus Fara*. Wissenschaftliche Veröffentlichung der Deutschen Orient-Gesellschaft 44
- YOS 1 — A. Clay 1915 *Miscellaneous Inscriptions in the Yale Babylonian Collection*, Part I. Yale Oriental Series I. New Haven

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	1248	1249	124A	124B	124C	124D	124E	124F	1250	1251	1252	1253	1254
0	12480	12490	124A0	124B0	124C0	124D0	124E0	124F0	12500	12510	12520	12530	12540
1	12481	12491	124A1	124B1	124C1	124D1	124E1	124F1	12501	12511	12521	12531	
2	12482	12492	124A2	124B2	124C2	124D2	124E2	124F2	12502	12512	12522	12532	12542
3	12483	12493	124A3	124B3	124C3	124D3	124E3	124F3	12503	12513	12523	12533	12543
4	12484	12494	124A4	124B4	124C4	124D4	124E4	124F4	12504	12514	12524	12534	12544
5	12485	12495	124A5	124B5	124C5	124D5	124E5	124F5	12505	12515	12525	12535	
6	12486	12496	124A6	124B6	124C6	124D6	124E6	124F6	12506	12516	12526	12536	12546
7		12497	124A7	124B7	124C7	124D7	124E7	124F7	12507	12517	12527	12537	12547
8	12488	12498	124A8	124B8	124C8	124D8	124E8	124F8	12508	12518	12528	12538	12548
9	12489	12499	124A9	124B9	124C9	124D9	124E9	124F9	12509	12519	12529		12549
A	1248A	1249A	124AA	124BA	124CA	124DA		124FA	1250A	1251A	1252A	1253A	
B	1248B	1249B	124AB	124BB	124CB	124DB	124EB	124FB	1250B	1251B	1252B	1253B	
C	1248C	1249C		124BC	124CC	124DC	124EC	124FC	1250C	1251C	1252C	1253C	
D	1248D	1249D	124AD	124BD	124CD	124DD	124ED	124FD	1250D	1251D	1252D	1253D	
E	1248E	1249E	124AE	124BE	124CE	124DE	124EE	124FE	1250E	1251E	1252E	1253E	
F	1248F	1249F	124AF	124BF	124CF	124DF	124EF	124FF	1250F	1251F	1252F	1253F	

## Signs

12480		CUNEIFORM SIGN AB TIMES ASH2 TENU = lak-541	124A3		CUNEIFORM SIGN DUG TIMES MASH = lak-570
12481		CUNEIFORM SIGN AB TIMES SHU2 = lak-542	124A4		CUNEIFORM SIGN DUG TIMES MES = lak-579
12482		CUNEIFORM SIGN AD TIMES ESH2	124A5		CUNEIFORM SIGN DUG TIMES MI = lak-574
12483		CUNEIFORM SIGN BAD TIMES DISH TENU = lak-045	124A6		CUNEIFORM SIGN DUG TIMES NI = lak-588
12484		CUNEIFORM SIGN BAHAR2 TIMES AB2 = lak-743	124A7		CUNEIFORM SIGN DUG TIMES PI = lak-567
12485		CUNEIFORM SIGN BAHAR2 TIMES NI = lak-745	124A8		CUNEIFORM SIGN DUG TIMES SHE = lak-563
12486		CUNEIFORM SIGN BAHAR2 TIMES ZA = lak-746	124A9		CUNEIFORM SIGN DUG TIMES SI GUNU = lak-572
12487		<reserved>	124AA		CUNEIFORM SIGN E2 TIMES KUR = lak-738
12488		CUNEIFORM SIGN BU OVER BU TIMES NA2	124AB		CUNEIFORM SIGN E2 TIMES PAP = lak-736
12489		CUNEIFORM SIGN DA TIMES TAK4 = lak-145	124AC		<reserved>
1248A		CUNEIFORM SIGN DAG TIMES KUR = lak-741	124AD		CUNEIFORM SIGN ERIN2 X
1248B		CUNEIFORM SIGN DIM TIMES U U U	124AE		CUNEIFORM SIGN ESH2 CROSSING ESH2 = lak-278a
1248C		CUNEIFORM SIGN DIM TIMES IGI = lak-054	124AF		CUNEIFORM SIGN EZEN SHESHIG TIMES ASH
1248D		CUNEIFORM SIGN DIM2 TIMES UD	124B0		CUNEIFORM SIGN EZEN SHESHIG TIMES HI
1248E		CUNEIFORM SIGN DUG TIMES ANSHE = lak-583	124B1		CUNEIFORM SIGN EZEN SHESHIG TIMES IGI GUNU
1248F		CUNEIFORM SIGN DUG TIMES ASH = lak-562	124B2		CUNEIFORM SIGN EZEN SHESHIG TIMES LA
12490		CUNEIFORM SIGN DUG TIMES ASH AT LEFT = lak-561	124B3		CUNEIFORM SIGN EZEN SHESHIG TIMES LAL
12491		CUNEIFORM SIGN DUG TIMES DIN = lak-585	124B4		CUNEIFORM SIGN EZEN SHESHIG TIMES ME
12492		CUNEIFORM SIGN DUG TIMES DUN = lak-582	124B5		CUNEIFORM SIGN EZEN SHESHIG TIMES MES
12493		CUNEIFORM SIGN DUG TIMES ERIN2 = lak-580	124B6		CUNEIFORM SIGN EZEN SHESHIG TIMES SU
12494		CUNEIFORM SIGN DUG TIMES GA = lak-573	124B7		CUNEIFORM SIGN EZEN TIMES SU
12495		CUNEIFORM SIGN DUG TIMES GI = lak-571	124B8		CUNEIFORM SIGN GA2 TIMES BAHAR2 = lak-706
12496		CUNEIFORM SIGN DUG TIMES GIR2 GUNU = lak-569	124B9		CUNEIFORM SIGN GA2 TIMES DIM GUNU = lak-685
12497		CUNEIFORM SIGN DUG TIMES GISH = lak-578	124BA		CUNEIFORM SIGN GA2 TIMES DUG TIMES IGI GUNU = lak-702
12498		CUNEIFORM SIGN DUG TIMES HA = lak-581	124BB		CUNEIFORM SIGN GA2 TIMES DUG TIMES KASKAL = lak-703
12499		CUNEIFORM SIGN DUG TIMES HI = lak-584	124BC		CUNEIFORM SIGN GA2 TIMES EREN
1249A		CUNEIFORM SIGN DUG TIMES IGI GUNU = lak-586	124BD		CUNEIFORM SIGN GA2 TIMES GA = lak-684
1249B		CUNEIFORM SIGN DUG TIMES KASKAL = lak-566	124BE		CUNEIFORM SIGN GA2 TIMES GAR PLUS DI = lak-687
1249C		CUNEIFORM SIGN DUG TIMES KUR = lak-577	124BF		CUNEIFORM SIGN GA2 TIMES GAR PLUS NE = lak-690
1249D		CUNEIFORM SIGN DUG TIMES KUSHU2	124C0		CUNEIFORM SIGN GA2 TIMES HA PLUS A = lak-694
1249E		CUNEIFORM SIGN DUG TIMES KUSHU2 PLUS KASKAL = lak-568	124C1		CUNEIFORM SIGN GA2 TIMES KUSHU2 PLUS KASKAL = lak-700
1249F		CUNEIFORM SIGN DUG TIMES LAK-020 = lak-564	124C2		CUNEIFORM SIGN GA2 TIMES LAM = lak-705
124A0		CUNEIFORM SIGN DUG TIMES LAM = lak-576	124C3		CUNEIFORM SIGN GA2 TIMES LAM TIMES KUR = lak-704
124A1		CUNEIFORM SIGN DUG TIMES LAM TIMES KUR = lak-575	124C4		CUNEIFORM SIGN GA2 TIMES LUH = lak-707
124A2		CUNEIFORM SIGN DUG TIMES LUH PLUS GISH = lak-565	124C5		CUNEIFORM SIGN GA2 TIMES MUSH = lak-696
			124C6		CUNEIFORM SIGN GA2 TIMES NE = lak-688
			124C7		CUNEIFORM SIGN GA2 TIMES NE PLUS E2 = lak-692
			124C8		CUNEIFORM SIGN GA2 TIMES NE PLUS GI = lak-689

124C9		CUNEIFORM SIGN GA2 TIMES SHIM = lak-701	124EB		CUNEIFORM SIGN LAK-021 = lak-021
124CA		CUNEIFORM SIGN GA2 TIMES ZIZ2 = lak-677	124EC		CUNEIFORM SIGN LAK-025 = lak-025
124CB		CUNEIFORM SIGN GABA ROTATED NINETY DEGREES	124ED		CUNEIFORM SIGN LAK-030 = lak-030
124CC		CUNEIFORM SIGN GESHTIN TIMES U = lak-631	124EE		CUNEIFORM SIGN LAK-050 = lak-050
124CD		CUNEIFORM SIGN GISH TIMES GISH CROSSING GISH = lak-277	124EF		CUNEIFORM SIGN LAK-051 = lak-051
124CE		CUNEIFORM SIGN GISHGAL = lak-648	124F0		CUNEIFORM SIGN LAK-062 = lak-062
124CF		CUNEIFORM SIGN GISHGAL TIMES DUB = lak-717	124F1		CUNEIFORM SIGN LAK-079 OVER LAK-079 GUNU = lak-079a
124D0		CUNEIFORM SIGN GISHGAL TIMES GA = lak-714	124F2		CUNEIFORM SIGN LAK-080 = lak-080
124D1		CUNEIFORM SIGN GISHGAL TIMES IGI = lak-650	124F3		CUNEIFORM SIGN LAK-081 OVER LAK-081 = lak-081a
124D2		CUNEIFORM SIGN GISHGAL TIMES IGI GUNU = lak-651	124F4		CUNEIFORM SIGN LAK-092 = lak-092
124D3		CUNEIFORM SIGN GISHGAL TIMES NI = lak-715	124F5		CUNEIFORM SIGN LAK-130 = lak-130
124D4		CUNEIFORM SIGN GISHGAL TIMES PAP PLUS PAP PLUS LU3 = lak-720	124F6		CUNEIFORM SIGN LAK-142
124D5		CUNEIFORM SIGN GISHGAL TIMES SHESH PLUS KI = lak-719	124F7		CUNEIFORM SIGN LAK-210 = lak-210
124D6		CUNEIFORM SIGN GISHGAL TIMES UD = lak-718	124F8		CUNEIFORM SIGN LAK-219 = lak-219
124D7		CUNEIFORM SIGN GISHGAL TIMES URUDA = lak-716	124F9		CUNEIFORM SIGN LAK-220 = lak-220
124D8		CUNEIFORM SIGN GU2 TIMES IGI GUNU = lak-547	124FA		CUNEIFORM SIGN LAK-225 = lak-225
124D9		CUNEIFORM SIGN GUD PLUS GISH TIMES TAK4 = lak-590	124FB		CUNEIFORM SIGN LAK-228 = lak-228
124DA		CUNEIFORM SIGN HI TIMES ASH OVER HI TIMES ASH = lak-362	124FC		CUNEIFORM SIGN LAK-238 = lak-238
124DB		CUNEIFORM SIGN HUBUR = lak-449	124FD		CUNEIFORM SIGN LAK-265 = lak-265
124DC		CUNEIFORM SIGN HUBUR TIMES GU = lak-455a	124FE		CUNEIFORM SIGN LAK-266 = lak-266
124DD		CUNEIFORM SIGN HUBUR TIMES IGI = lak-455	124FF		CUNEIFORM SIGN LAK-343 = lak-343
124DE		CUNEIFORM SIGN HUBUR TIMES PAP PLUS LU3 = lak-454	12500		CUNEIFORM SIGN LAK-347 = lak-347
124DF		CUNEIFORM SIGN HUBUR TIMES PAP PLUS PAP PLUS LU3 = lak-453	12501		CUNEIFORM SIGN LAK-348 = lak-348
124E0		CUNEIFORM SIGN HUBUR TIMES U2 PLUS BA = lak-452	12502		CUNEIFORM SIGN LAK-383 = lak-383
124E1		CUNEIFORM SIGN KA TIMES BU	12503		CUNEIFORM SIGN LAK-384 = lak-384
124E2		CUNEIFORM SIGN KA TIMES U U U = lak-328	12504		CUNEIFORM SIGN LAK-390 = lak-390
124E3		CUNEIFORM SIGN KA TIMES KA	12505		CUNEIFORM SIGN LAK-441 = lak-441
124E4		CUNEIFORM SIGN SANG TIMES SHE AT LEFT	12506		CUNEIFORM SIGN LAK-450 = lak-450
124E5		CUNEIFORM SIGN KA TIMES U = lak-319	12507		CUNEIFORM SIGN LAK-457 = lak-457
124E6		CUNEIFORM SIGN KA TIMES UR	12508		CUNEIFORM SIGN LAK-470 = lak-470
124E7		CUNEIFORM SIGN KUSHU2 TIMES SAL = lak-446	12509		CUNEIFORM SIGN LAK-483 = lak-483
124E8		CUNEIFORM SIGN LAGAB TIMES ZU OVER ZU = lak-788	1250A		CUNEIFORM SIGN LAK-490 = lak-490
124E9		CUNEIFORM SIGN LAK-003 = lak-003	1250B		CUNEIFORM SIGN LAK-492 = lak-492
124EA		<reserved>			

1250C	𒀭	CUNEIFORM SIGN LAK-493 = lak-493	1252D	𒀭	CUNEIFORM SIGN NINDA2 TIMES PAP PLUS PAP = lak-113
1250D	𒀭	CUNEIFORM SIGN LAK-495 = lak-495	1252E	𒀭	CUNEIFORM SIGN NINDA2 TIMES U = lak-102
1250E	𒀭	CUNEIFORM SIGN LAK-550 = lak-550	1252F	𒀭	CUNEIFORM SIGN NINDA2 TIMES U PLUS U = lak-103
1250F	𒀭	CUNEIFORM SIGN LAK-608 = lak-608	12530	𒀭	CUNEIFORM SIGN NINDA2 TIMES URUDA = lak-111
12510	𒀭	CUNEIFORM SIGN LAK-617 TIMES ASH = lak-618	12531	𒀭	CUNEIFORM SIGN SAG GUNU TIMES HA = lak-309
12511	𒀭	CUNEIFORM SIGN LAK-617 TIMES BAD = lak-619	12532	𒀭	CUNEIFORM SIGN SAG TIMES EN = lak-311
12512	𒀭	CUNEIFORM SIGN LAK-617 TIMES KU3 = lak-620	12533	𒀭	CUNEIFORM SIGN SAG TIMES TAK4
12513	𒀭	CUNEIFORM SIGN LAK-617 TIMES LA = lak-621	12534	𒀭	CUNEIFORM SIGN SAG9 TENU
12514	𒀭	CUNEIFORM SIGN LAK-617 TIMES MIR = lak-622	12535	𒀭	CUNEIFORM SIGN SHE OVER SHE = lak-200
12515	𒀭	CUNEIFORM SIGN LAK-617 TIMES TAR = lak-626	12536	𒀭	CUNEIFORM SIGN SHE PLUS HUB2 = lak-207
12516	𒀭	CUNEIFORM SIGN LAK-617 TIMES TE = lak-624	12537	𒀭	CUNEIFORM SIGN SHE PLUS NAM2
12517	𒀭	CUNEIFORM SIGN LAK-617 TIMES U2 = lak-625	12538	𒀭	CUNEIFORM SIGN SHE PLUS SAR = lak-216
12518	𒀭	CUNEIFORM SIGN LAK-617 TIMES UD = lak-623	12539	𒀭	<reserved>
12519	𒀭	CUNEIFORM SIGN LAK-617 TIMES URUDA = lak-627	1253A	𒀭	CUNEIFORM SIGN SHU2 PLUS DUG TIMES NI = lak-396
1251A	𒀭	CUNEIFORM SIGN LAK-636 = lak-636	1253B	𒀭	CUNEIFORM SIGN SHU2 PLUS E2 TIMES AN = lak-358
1251B	𒀭	CUNEIFORM SIGN LAK-724 = lak-724	1253C	𒀭	CUNEIFORM SIGN SI TIMES TAK4 = lak-85
1251C	𒀭	CUNEIFORM SIGN LAK-749 = lak-749	1253D	𒀭	CUNEIFORM SIGN TAK4 PLUS SAG = lak-310
1251D	𒀭	CUNEIFORM SIGN LU2 GUNU TIMES ASH = lak-339	1253E	𒀭	CUNEIFORM SIGN TUM TIMES GAN2 TENU = lak-497b
1251E	𒀭	CUNEIFORM SIGN LU2 TIMES DISH = lak-338	1253F	𒀭	CUNEIFORM SIGN TUM TIMES THREE TIMES DISH = lak-497a
1251F	𒀭	CUNEIFORM SIGN LU2 TIMES HAL = lak-340b	12540	𒀭	CUNEIFORM SIGN UR2 TIMES UD = lak-480
12520	𒀭	CUNEIFORM SIGN LU2 TIMES PAP = lak-340a	12541	𒀭	<reserved>
12521	𒀭	CUNEIFORM SIGN LU2 TIMES PAP PLUS PAP PLUS LU3 = lak-341	12542	𒀭	CUNEIFORM SIGN URU TIMES DARA3 = lak-592
12522	𒀭	CUNEIFORM SIGN LU2 TIMES TAK4 = lak-342	12543	𒀭	CUNEIFORM SIGN URU TIMES LAK-668 = lak-600
12523	𒀭	CUNEIFORM SIGN MI PLUS ZA7 = lak-393	12544	𒀭	CUNEIFORM SIGN URU TIMES LU3
12524	𒀭	CUNEIFORM SIGN MUSH OVER MUSH TIMES GA	12545	𒀭	<reserved>
12525	𒀭	CUNEIFORM SIGN MUSH OVER MUSH TIMES KAK	12546	𒀭	CUNEIFORM SIGN ZA7 = lak-798
12526	𒀭	CUNEIFORM SIGN NINDA2 TIMES DIM GUNU = lak-097	12547	𒀭	CUNEIFORM SIGN ZU OVER ZU PLUS SAR = lak-218
12527	𒀭	CUNEIFORM SIGN NINDA2 TIMES GISH = lak-116	12548	𒀭	CUNEIFORM SIGN ZU5 TIMES THREE DISH TENU = lak-118
12528	𒀭	CUNEIFORM SIGN NINDA2 TIMES GUL = lak-112	12549	𒀭	CUNEIFORM SIGN ZUBUD GUNU = lak-354
12529	𒀭	CUNEIFORM SIGN NINDA2 TIMES HI = lak-114			
1252A	𒀭	CUNEIFORM SIGN NINDA2 TIMES KESH2 = lak-115			
1252B	𒀭	CUNEIFORM SIGN NINDA2 TIMES LAK-050 = lak-098			
1252C	𒀭	CUNEIFORM SIGN NINDA2 TIMES MASH = lak-110			

## A. Administrative

1. Title

**Preliminary proposal for Early Dynastic Cuneiform**

2. Requester's name

**UC Berkeley Script Encoding Initiative (Universal Scripts Project)**

3. Requester type (Member body/Liaison/Individual contribution)

**Liaison contribution.**

4. Submission date

**2012-01-27**

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

**No.**

6b. More information will be provided later

**Yes.**

## B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

**No.**

1b. Proposed name of script

1c. The proposal is for addition of character(s) to an existing block

**Yes**

1d. Name of the existing block

**Early Dynastic Cuneiform**

2. Number of characters in proposal

**23 (9, 14).**

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

**Category F.**

4a. Is a repertoire including character names provided?

**Yes.**

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

**Yes.**

4c. Are the character shapes attached in a legible form suitable for review?

**Yes.**

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

**Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

**Michael Everson, Fontographer.**

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

**Yes.**

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

**No.**

7. 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.**

8. 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 Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

**See above.**

## C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

**No.**

2a. 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.**

2b. If YES, with whom?

**Steve Tinney.**

2c. 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?

**Sumerologists.**

4a. The context of use for the proposed characters (type of use; common or rare)

**Used historically and in modern editions.**

4b. Reference

5a. Are the proposed characters in current use by the user community?

**Yes.**

5b. If YES, where?

**Scholarly publications.**

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

**No.**

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

**No.**

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

**No.**

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

**No.**

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

**No.**

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

**No.**

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

**No.**

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

**No.**

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

**No.**

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?