B. ARPABET-IPA MAPPINGS

NOISES

+BR	breathing
+HU	human noise
+NH	non-human noise
+SM	lip smack
+TH	throat clearing
+LA	laughter
+F	semantic noise (um, uh)

DIPHTHONGS

AW	aʊ
AY	aɪ
EY	eɪ
OY	ɔi

VOWELS

AA	ɑ
AE	æ
AH	ʌˈ
AX	ə
AO	ɔ
EH	ɛ
ER	ɚˈ
AXR	ɚ
IH	ɪˈ
IX	ɪ
IY	i
OW	o
UH	ʊ
UW	u

CONSONANTS

B	b	K	k	SH	ʃ
CH	ʧ	L	l	T	t
D	d	M	m	TH	θ
DH	ð	N	n	V	v
DX	ɾ	NG	ŋ	W	w
F	f	P	p	Y	j
G	g	R	ɹ	Z	z
HH	h	S	s	ZH	ʒ
JH	ʤ				

Figure 3: Current JANUS Switchboard phonemes and their IPA counterparts.

OTHER

DD	d˺	AA0	ɑ	EL	ɬ
BD	b˺	AA2	ɑ$_{\text{ˌ}}$	EM	n̩
GD	g˺	AA1	ɑˈ	EN	m̩
KD	k˺	AH0	ə		
PD	p˺	AH2	ʌ$_{\text{ˌ}}$		
TD	t˺	AH1	ʌˈ	TS	t͡s

Figure 4: Other common ARPABET symbols. Note that AX and AH0, e.g., are equivalent.