

Final

VQEG Gaithersburg Meeting
May 1998

VQEG 17

List of HRC (Hypothetical Reference Circuits)

	BIT RATE	RES	METHOD	COMMENTS
1a	768 kb/s	CIF	H.263	
2a	1.5 Mb/s	CIF	H.263	
3a	2 Mb/s	3/4	mp@ml	This is a horizontal resolution reduction only
4a	2 Mb/s	3/4	mp@ml	
5ab	3 Mb/s		mp@ml	
6a	4.5 Mb/s		mp@ml	
7ab	4.5 Mb/s		mp@ml	Composite NTSC and/or PAL
8b	6 Mb/s		mp@ml	
9b	8 Mb/s		mp@ml	Composite NTSC and/or PAL
10b	8 & 4.5 Mb/s		mp@ml	Two codecs concatenated
11b	12 Mb/s		mp@ml	
12b	19-PAL-19-PAL-12 Mb/s		422p@ml	PAL or NTSC 3 generations
13b	50 Mb/s		422p@ml	7 generations with shift, I-frames only
14b	19-19-12 Mb/s		422p@ml	3 generations
15b	n/a		n/a	Multi-generation Betacam (4 or 5, composite-component), avoid large dropouts
16a	TBD		mp@ml	with errors TBD (to be determined)
17a	TBD		422p@ml	I only, with errors TBD (perhaps a lower bit rate)

Notes:

- 1) a, b = two different test groups, n/a = not applicable, TBD = to be determined
- 2) Different codecs should be used for the various HRCs as much possible
- 3) All scenes are to be shown full size, specifically refers to HRC 1 and 2
- 4) For HRCs 20 and 21, artifacts are to be kept within the same quality range as the other impairments in the test. However multiple perceptible errors should occur within the sequence. Due to the technical concern over inclusion or not of these HRCs they are considered to be pilot study. Results from these HRCs will be analyzed for consistency of its subjective data in order to determine if they should be included in the overall report of results.